REPORT ON THE 1987 DISCHARGES **FROM** SEWAGE TREATMENT PLANTS IN ONTARIO

OCTOBER 1988



Copyright Provisions and Restrictions on Copying:

This Ontario Ministry of the Environment work is protected by Crown copyright (unless otherwise indicated), which is held by the Queen's Printer for Ontario. It may be reproduced for non-commercial purposes if credit is given and Crown copyright is acknowledged.

It may not be reproduced, in all or in part, for any commercial purpose except under a licence from the Queen's Printer for Ontario.

For information on reproducing Government of Ontario works, please contact ServiceOntario Publications at <a href="mailto:copyright@ontario.ca">copyright@ontario.ca</a>

#### REPORT ON THE 1987 DISCHARGES

FROM

#### SEWAGE TREATMENT PLANTS

IN ONTARIO

OCTOBER 1988

ISSN # : 0840 - 7142

©Queen's Printer for Ontario, 1988

#### **ACKNOWLEDGEMENTS**

Thanks is extended to the MISA Municipal Section, Project and Data Management Section and all the Regions for their cooperation in producing this report.

#### **EXECUTIVE SUMMARY**

The 1987 Municipal Discharge Report provides a comprehensive summary of the performance of all the Sewage Treatment Plants (STP's) in Ontario. Three parameters Biochemical Oxygen Demand (BOD), Suspended Solids (SS) and Total Phosphorus (TP) were assessed. STP's failing Ministry of the Environment (MOE) sewage effluent quality guidelines for any one of the three parameters are said to be "out of compliance" in this report.

Four hundred and twelve plants were operating in 1987. Of these, 41 plants were not assessed for compliance. Eight plants provided insufficient data for assessment without reason, as compared to 17 from 1986. Morrisburg from Southeast is a repeat offender from last year.

Eleven STP's provided insufficient data with a reason. They were either new plants beginning operation in 1987, or were being upgraded in that year. Twenty-two plants did not discharge to surface water.

Of the 371 plants assessed, 138 (37 %) were out of compliance with the Ministry sewage effluent quality guidelines. This is an improvement over 1986, in which 151 of 362 (42 %) plants assessed were out of compliance.

Specifically, 17 STP's (5 % of the total number of STP's assessed) failed BOD in 1987, as compared to 18 (5 %) in 1986. Fifty-three (14 %) failed SS in 1987, as compared to 47 (13 %) in 1986. TP showed an improvement in 1987. Eighty-seven continuous discharge STP's and 13 seasonal and annual lagoons (27 %) failed the monthly requirement this year as compared to a total of 126 (35 %) in 1986. Of the continuous discharge STP's in 1987, 33 plants failed TP for one month, 28 for 2 to 3 months and 26 for greater than 3 months.

46 plants failed compliance in 3 successive years. All of these plants have remedial action.

Bypasses were reported for the first time in 1987. The data were very incomplete. Only 76 STP's reported bypass data, although bypasses may have occurred at many plants. Fourteen verified that no bypass occurred at their plants. Sixty-two plants reported having one or more bypass(es) in 1987. Furthermore, only 4 plants submitted the complete set of data for volume, duration and number of instances for secondary bypass and 10 plants for raw sewage bypass. Secondary bypass is defined as sewage that has received solids removal at primary clarifiers but has bypassed secondary biological treatment process.

	TABLE OF CONTENTS	PAGE NUMBER
	Acknowledgements	i
	Executive Summary	ii
1.0	Introduction	1
2.0	Significance of BOD, SS and TP	1
3.0	MOE Compliance and Non-Compliance Assessment Criteria	2
4.0	Sampling and Reporting Criteria	3
5.0	Audit of STP Operations	4
6.0	1987 Compliance and Non-Compliance Status	5
	6.1 Background Information of Sewage Treatment Plants	5
	6.2 Plants not Assessed for Compliance	7
	6.3 Compliance	12
	6.4 Non-Compliance	12
	6.5 Plants Non-Complying Two and	16
	Three Successive Years 6.5 Remedial Measures	16
	6.6 Historical Review	22
7.0	Bypasses	24
8.0	Future Actions	26
9.0	Enquiries	27

Appendix A Sewage Treatment Plants A Exceeding Effluent Requirements and Their Remedial Measures	A-1
Appendix B Sewage Treatment Plants B Listing and Operating Data for 1987	3-1
Index of Appendix B by Municipality	B <b>-4</b> 35
Index of Appendix B by E	B-443
Appendix C Sewage Treatment Plants C Plant and Secondary Bypass Data for 1987	C-1

#### LIST OF DIAGRAMS

Diagram 1	Total Phosphorus Non-Compliance	21
-	Summary for Continuous Discharge	
	Plants	

#### LIST OF TABLES

Table	1	Ministry General Effluent Requirements	3
Table	2	Provincial Sewage Summary	6
Table	3	Loading of BOD, SS and TP to Minor Basins	8
Table	4	Sewage Treatment Plants with No Discharge to Surface Waters	9
Table	5	Sewage Treatment Plants with Reason for Insufficient Data	10
Table	6	Sewage Treatment Plants with Insufficient Data for Assessment	11
Table	7	Compliance Summary	13
Table	8	Non-Compliance Summary	14
Table	9	Total Phosphorus Non-Compliance Summary for Continuous Discharge Plants	15
Table	10a-e	Plants Failing Compliance Two and Three Successive Years	17-21
Table	11	Annual Compliance Summary (1981 - 1987)	23
Table	12	Total Phosphorus Monthly Compliance Summary (1985 - 1987)	23
Table	13	Summary of Plant and Secondary Bypass	25

#### 1.0 INTRODUCTION

The 1987 Discharge Report provides a comprehensive summary of the performance of all the Sewage Treatment Plants (STP's) in Ontario. Three parameters, Biochemical Oxygen Demand (BOD), Suspended Solids (SS) and Total Phosphorus (TP) were assessed. STP's not meeting Ministry sewage effluent quality guidelines for any one of the three parameters are identified as being out of compliance.

This report provides useful information for the Ministry to prioritize STP's for remedial actions. Through remedial actions, fewer plants will be out of compliance in the future, thereby improving the quality of Ontario's surface waters.

The main text of this report presents a brief summary of the number of plants failing BOD, SS and/or TP. A comparison between compliance status between 1981 and 1987 are also discussed. In addition, plants that did not provide sufficient data for assessment and plants that failed compliance three successive years are also highlighted in the text.

Three appendixes accompany this report. Appendix A lists all the non-complying plants and remedial actions. Appendix B provides a plant by plant summary of monthly averages for flows, concentrations and loadings of the parameters assessed. Appendix C provides a monthly summary of duration, volume and number of instances of raw sewage and secondary bypass data at 62 STP's. Secondary bypass is defined as sewage that has received solids removal at primary clarifiers but has bypassed secondary biological treatment process.

#### 2.0 SIGNIFICANCE OF BOD, SS AND TP

BOD, SS and TP have traditionally been used by pollution control engineers as indicators of plant performance and effluent quality. These parameters are used by the Ministry to assess STP compliance.

The strength of wastewater is often measured by the 5 day Biochemical Oxygen Demand (BOD5) test. This is the amount of oxygen required by microorganisms to reduce the organic content in sewage to carbon dioxide, measured over a 5 day period. Effluent with high BOD concentrations may cause oxygen depletion in receiving waters.

Removal of suspended solids in sewage effluent is important since excessive amounts of solids discharged to a water

source can cause aesthetic problems and kill fish by clogging respiratory passages (gills).

TP has been identified as a major factor in the eutrophication of receiving waters. Excessive amounts of phosphorus, cause rapid growth of algae and weeds. When algae and weeds die they decompose and use up dissolved oxygen. Lack of dissolved oxygen can kill aquatic organisms.

#### 3.0 MOE COMPLIANCE AND NON-COMPLIANCE ASSESSMENT CRITERIA

Discharge of polluting material to any water course is an offence under the Ontario Water Resources Act. In this report, BOD and SS are assessed on an annual average, based on the general operating requirements of Policy 08-01 "Levels of Treatment for Municipal and Private Sewage Treatment Works Discharging to Surface Waters ".

Prior to 1985, TP was also assessed on an annual average basis as stipulated in Policy 08-04 " Provision and Operation of Phosphorus Removal Facilities at Institutional and Private Treatment Works ". However, in 1983, the United States and Canada agreed to tighten the control of TP discharged to the Great Lakes Basins. Currently, TP is assessed on a monthly average basis as specified in the Canada - US Agreement on Great Lakes Water Quality (October 1983 ). Policy 08-04 is currently under revision to reflect this more stringent requirement.

Table 1 summarizes the effluent requirements for various types of STP's.

# TABLE 1 MINISTRY GENERAL EFFLUENT REQUIREMENTS (Based on Policy 08-01 and Canada-US Agreement, 1983)

	PARAMETER				
   Type of Treatment 	BOD  (Annual Average   Basis)	Suspended Solids   (Annual Average     Basis)	Total Phosphorus (Monthly Average Basis)		
PRIMARY:   Without TP Removal   With TP Removal	   30 % removal   50 % removal 	   50 % removal     70 (% removal   	n/a   1.0 mg/l		
SECONDARY:   Without TP Removal   With TP Removal	   25 mg/l   25 mg/l	   25 mg/l     25 mg/l	n/a 1.0 mg/l		
LAGOONS:   Without TP Removal   Continuous TP Removal   Batch TP removal	   30 mg/l   30 mg/l   25 mg/l	40 mg/l     40 mg/l     25 mg/l	n/a   1.0 mg/l   1.0 mg/l		

n/a - not applicable

#### 4.0 SAMPLING AND REPORTING REQUIREMENTS

Under the requirements outlined in Policy 08-06 " Policy to Govern Sampling and Analysis Requirements for Municipal and Private Sewage Treatment Works (Liquid Waste Streams Only) "STP's are required to provide a Ministry laboratory a minimum of one sample per month of the influent and effluent streams for analysis. Many facilities supplement this minimum requirement by doing additional analyses at their own laboratories.

Plant operators report monthly average STP flow, influent and effluent concentrations for BOD, TP and SS to the Ministry. Data is checked for accuracy at the Regional Office and then forwarded to head office for central computer processing.

In addition to reporting effluent quality, STP's also report the following information:

- Municipality
- . Plant name
- . Treatment type
- Region and District
- . Operating authority
- . Watercourse, Major Basin and Minor Basin
- IJC Designation
- . Design Capacity
- . Population Served

This information is available in Appendix B. The Appendix is arranged by Region ( Southwest, West Central, Central, Southeast, Northeast and Northwest ) and by municipality. Compliance status and remedial measures are also indicated. Regional boundaries and District Offices are shown at the beginning of each section. A summary of facilities by treatment type, operating authority and estimated hydraulic loading design capacity is also available at the beginning of each section.

#### 5.0 AUDIT OF STP OPERATIONS

Inspections are carried out at municipally operated STP's by the Regional Operations Division of the MOE. During site visits, MOE staff visually inspect the STP facility and discuss operational procedures with the operating authority. The operating authority is formally made aware of any deficiencies by way of inspection reports. If warranted, follow up inspections are scheduled until the identified problems are corrected. The responsibility for implementing remedial programs is that of the operating authority. Financial commitment by the municipality is often a major factor affecting the time required to implement remedial programs and meet effluent requirements.

At Ministry operated facilities assessment is continually being carried out by regional staff responsible for these facilities. Daily operations are controlled by on-site staff employed by the Ministry. Major capital improvements must be approved by municipal authorities. Remedial programs may be prolonged due to funding problems.

#### 6.0 1987 COMPLIANCE AND NON-COMPLIANCE STATUS

#### 6.1 BACKGROUND INFORMATION OF SEWAGE TREATMENT PLANTS

At the end of 1987, sanitary sewage from over 7 million people (81 % of Ontario's population) were collected and treated by 412 STP's in Ontario. NOTE: The total number of STP's is an actual count of effluent discharge pipes. Some plants may contain more than one discharge pipe.

Sanitary sewage from the remaining population, located in rural areas, are for the most part treated by private systems (septic tanks/tile field systems) serving individual residences.

Ten plants started operation in 1987. They were:

1.	Cookstown	Central
2.	Fox Street	Central
3.	Innisfil (Alcona)	Central
4.	Chute A Blondeau	Southeast
5.	Embrun	Southeast
6.	Williamsburg P.V. Lagoon	Southeast
7.	Cecile Park (Hearst)	Northeast
8.	Dubreuilville	Northeast
9.	Hallebourg	Northeast
10.	Jogues	Northeast

Two plants, Swastika (NE) and Manitouwadge (NW) changed from a communal septic tank in 1986, to a conventional activated sludge plant and an aerated continuous discharge lagoon, respectively, in 1987. Soper Creek 1 and 2 were phased out.

Table 2 summarizes STP's by treatment type, operating agency and hydraulic loading design capacity. Similar summaries for each region can be found in Appendix B at the beginning of each regional section.

STP's are operated by the MOE or Municipality. Larger facilities are usually owned and operated by the Municipality(ies) they serve, whereas, the Ministry may operate facilities for smaller municipalities.

Two hundred thirty-eight STP's were operated by the Ministry and 174 were operated by the Municipality. Although the Ministry operates a greater number of STP's than the Municipalities, it is apparent from Table 2 that Municipalities are responsible for over 3 times the hydraulic loading to surface waters than the Ministry. Conventional Activated Sludge plants contribute 70% of the flow.

TABLE 2 PROVINCIAL SEWAGE SUMMARY - 1987

TREATMENT TYPE		NUMBER			DRAULIC LOADIN	
	MINISTRY	MUNICIPAL	TOTAL	MINISTRY	MUNICIPAL	TOTAL
Communal Septic Tank	1	6	7	.272	1.664	1.936
Primary	9	22	31	162.655	967.525	1,130.181
Conventional Activated Sludge	32	56	89	979.181	3,238.734	(248.610) 4,217.915
Modified Activated Sludge	1	0	1	12.274	.000	(927.830) 12.274 (2.700)
Contact Stabilization	7	6	13	24.580	35.867	60.448
Extended Aeration	65	30	95	128.633	103.917	232.550
Trickling Filter	0	1	1	.000	.454	.454 (.100)
High Rate	3	2	5	18.684	77.282	95.966 (21.110)
Oxidation Ditch	9	2	11	11.046	7.814	18.861 (4.149)
Aerated Lagoon	3	3	6	6.664	9.878	16.542
Conventional Lagoon Continuous	6	11	17	7.155	32.676	39.832 (8.762)
Conventional Lagoon Seasonal	73	27	100	67.279	49.114	116.393
Conventional Lagoon Annual	9	0	9	4.450	.000	4.450 (.979)
Lagoon and Spray	3	1	4	1.518	.363	1.882
Aerated Cell Plus Lagoon	13	6	18	49.349	10.446	59.795 (13.153)
Exfiltration Lagoon	4	1	5	4.409	1.545	5.955 (1.310)
TOTALS	238	174	412	1478.155 (325.155)	4537.629 (998.159)	6015.784 (1323.314)

10<sup>3</sup> m/d: THOUSANDS OF CUBIC METRES PER DAY

CONVERSION FACTOR

mid: MILLION IMPERIAL GALLONS PER DAY

10<sup>3</sup> m<sup>3</sup>/d = .220 MIG migd: MILLION IMPERIAL GALLONS PER DAY

01307-PDR.43

 $10^3 \text{ m}^3/\text{d} = .220 \text{ MIGD}$ 

STP's in Ontario have a total hydraulic loading design capacity of 6,015 x 1000 m^3/day ranging from 818 x 1000 m^3 at Toronto Main to 0.045 x 1000 m^3 at Carleton Lodge in Nepean.

Table 3 summarizes annual average daily loading of BOD, SS and TP to Minor Basins. Values are based on the actual data received from the STP's. In 1987, a total of 84 tonnes/day of BOD, 89 tonnes/day of SS and 5 tonnes/day of TP were discharged to receiving waters by STP's. Of the Minor Basins, Lake Ontario received the greatest loading of all 3 parameters in 1987.

#### 6.2 PLANTS NOT ASSESSED FOR COMPLIANCE

Of the 412 STP's in Ontario, 41 have not been assessed for compliance because they did not provide sufficient data for assessment. Sufficient data is defined as 9 or more monthly observations for continuous discharge facilities in 1987 and 1 sample/month of discharge for seasonal and annual lagoons. The 41 plants can be divided into the following categories:

#### 1. No discharge to surface water

Twenty-two of the 41 plants have no discharge to surface waters. Many of these are exfiltration facilities or lagoons that did not require discharge in 1987. Table 4 summarizes these plants.

#### Insufficient data with reason

Eleven STP's that were not assessed have a justifiable reason for insufficient data. Their plants were being upgraded or operations were being started in 1987. These plants are included in Table 5.

#### 3. Insufficient data with no reason

The remaining 8 facilities did not provide satisfactory explanation to the Ministry why incomplete data for assessment was reported. These plants are listed in Table 6.

Morrisburg in Southeast Region is the only plant that has provided insufficient data for assessment two years in a row.

TABLE 3

LOADING OF BIOCHEMICAL OXYGEN DEMAND, SUSPENDED SOLIDS,
AND TOTAL PHOSPHORUS TO THE MINOR BASINS

	E 5				I.		l	
	NUMBER OF	AVERAGE	BOD	BOD	ss	SS	TP	TP
MINOR BASIN	FACILITIES	A COMPANIES OF THE PARTY OF THE	LOADING	AVERAGE	LOADING	AVERAGE	LOADING	AVERAGE
		1000 m^3/d	tonnes/d	mg/l	tonnes/d	mg/l	tonnes/d	mg/l
LAKE ONTARIO	     77	     2906.983	     40.702 	14.001	 	16.317	 	0.747
LAKE HURON	112	363.561	   5.478 	15.068	   4.252   	11.695	   0.451   	1.240
LAKE ERIE	102	857.334	   11.013 	12.846	   11.994   	13.990	0.604	0.705
OTTAWA RIVER	50	526.458	   16.743 	31.804	 	26.896	   1.005	1.908
LAKE SUPERIOR	12	   88.842 	   4.853 	54.627	   5.840   	65.736	   0.107	1.202
JAMES BAY	33	   51.105 	   0.694 	13.582	   1.307   	25.579	   0.094	1.838
LAKE WINNEPEG EAST	13	   32.861 	   0.553 	16.842	   0.838   	25.488	   0.050	1.507
ST. LAWRENCE RIVER	   13 	   150.640 	   3.603 	23.918	   3.544   	23.526	   0.147   	0.974
Total	412	     4977.784	   83.640					

# TABLE 4 SEWAGE TREATMENT PLANTS WITH NO DISCHARGE TO SURFACE WATERS IN 1987

#### SOUTHWEST

*	Dover	(Mitchell's	Bay	Lagoon)	No	Discharge	in	1987
-	M11-	. 1						

\* Markdale Lagoon Exfiltration

#### WEST CENTRAL

Brantford (Airport STP)

\* Nanticoke (Townsend Lagoon)
Port Colbourne (West Plant)

Discharge to a Tile Field
No Discharge 1987
Standby Plant - No Discharge

1987

#### CENTRAL

	Brock (Beaverton Riv	ver 1 Lagoon)	Exfiltration
*	Beeton Lagoon		Exfiltration
*	Omemee Lagoon		Spray Irrigation
*	Wasaga Beach STP		Exfiltration

#### SOUTHEAST

Williamsburg No Discharge 1987

#### NORTHEAST

*	Casimir (St. Charles Lagoon)	No Discharge 1987
*	Cosby M.M. (Noelville Lagoon)	No Discharge 1987
*	Dubreuilville Lagoon	In operation 1987
	Mattawa Lagoon	Exfiltration
*	Ratter & Dunnet (Warren Lagoon)	No Discharge 1987
	Temagami Lagoon	Exfiltrating in 1987
*	Webbwood Lagoon	No Discharge 1987
*	White River Lagoon	No Discharge 1987
	Val Rita Harty (Harty Lagoon)	No Discharge 1987

#### NORTHWEST

*	Beardmore Lagoon	Exfiltration
	Caramat STP	Exfiltration
	Terrace Bay Lagoon	Exfiltration

<sup>\*</sup> Operated by the Ministry of the Environment

#### TABLE 5 SEWAGE TREATMENT PLANTS WITH REASON FOR INSUFFICIENT DATA TO ASSESS COMPLIANCE IN 1987

#### CENTRAL

Cookstown STP

\* Alcona (Innisfil STP) New operation in 1987
Bracebridge Plant Not in Use - Upgrading New operation in 1987

#### SOUTHEAST

Russell (Embrun P.V. Lagoon) New operation in 1987

#### NORTHEAST

Black River Matheson (Holtyre-Ross Mine STP) Black River Matheson (Holtyre STP) Hallebourg Lagoon Hearst Larder Lake WPCP

\* Michipicoten (Wawa)

\* Moder Construction in 1987

New operation in 1987

No access to effluent

Under construction

Under construction

\* With the construction of th (Cecile Trailer Park Lagoon) New operation in 1987

Under construction Under construction

New operation in 1987

<sup>\*</sup> Operated by the Ministry of the Environment

# TABLE 6 SEWAGE TREATMENT PLANTS WITH NO REASON FOR INSUFFICIENT DATA TO ASSESS COMPLIANCE FOR 1987

#### SOUTHWEST

\* Kincardine Lagoon Tilbury Lagoon

#### CENTRAL

East Gwillimbury (Mount Albert STP)

#### SOUTHEAST

! Morrisburg STP Stirling Lagoon

#### NORTHEAST

- \* Fauquier Lagoon
- \* Mattice Lagoon
- \* Opasatika Lagoon

<sup>\*</sup> Operated by the Ministry of the Environment

<sup>!</sup> Repeat Offenders

#### 6.3 COMPLIANCE

A total of 371 plants were assessed for compliance. Table 7 shows that 233 plants (63 % of the total assessed) met all of the Ministry effluent guideline requirements. The percentage of plants complying this year has improved slightly over last year. In 1986, 58 % or 211 out of 362 plants assessed were in compliance.

This year, 95 % of the STP's assessed met the annual requirement for BOD and 86 % of the STP's met the SS annual guideline. 73 % met the monthly guideline for TP, although not all STP's have a compliance criteria for TP removal. If TP were assessed on an annual average basis, as in past years, 92 % of the STP's would have been in compliance.

#### 6.4 NON-COMPLIANCE

One hundred thirty-eight (37 %) of the 371 plants assessed are out of compliance with the Ministry's effluent water quality guidelines. Eighty-one of these are MOE plants. Table 8 summarizes the number of STP's that are not in compliance. Further analysis indicates the following:

- 1. Seventeen (5 %) STP's are failing BOD criteria.
- 2. A total of 53 (14 %) STP's are out of compliance for SS. Thirty-three (9 %) of the plants are lagoons. Frequently, lagoons are high in SS due to algal blooms and scouring of bottom sediment from wind action. Controlling algae in lagoon effluent is a universal problem. In consideration of this difficulty, some American States, like Minnesota, have revised their BOD and SS effluent limitations from 25 to 40 mg/l and 30 to 45 mg/l, respectively.
- Eighty-seven continuous discharge STP's and 13 3. seasonal or annual lagoons (27 % of the total STP's assessed ) are out of compliance for TP on a monthly basis. Of the continuous discharge plants, 33 are non complying only one month, 28 are noncomplying 2 to 3 months and a total of 26 are non-complying more than 3 months. This implies that few plants are chronic offenders with respect to TP. Only 28 (8 %) of the 100 facilities have TP concentrations greater than 1 mg/l on an annual basis; which was the compliance standard used prior to 1985. Table 9 summarizes the number of continuous discharge plants non-complying with TP on a per month basis. Diagram 1 depicts this trend schematically.

<u>TABLE 7</u> 1987 COMPLIANCE SUMMARY FOR SEMAGE TREATMENT PLANTS

Region	Total Number of S.T.P.'s	Number of S.T.P.'s Assessed	Number of S  All   Parameters	* BOD	eeting Crit	teria for   
Southwest	104	100	53	97	78	69
   West Central   	56	53	29     29	51	47	34   
   Central 	76   76	68	47     47	67	66	48
   Southeast   	67   67	63	36     36	57	47	44
   Northeast 	   82 	63	   48   	60	58	54
   Northwest   	   27 	24	   20   	22	22	22   
 	 	     371 	 	354 (95%)	     318   (86%)	271
 	     407 	     362 	     211     (58%)	344 (95%)	     315   (87%)	     236   (65%)

The figures within the parentheses are the percentages of the parameter as compared to plants assessed.

<sup>\*</sup> SS and BOD are assessed on an annual basis

<sup>+</sup> TP is assessed on a monthly basis; one or more months out of compliance means the plant is out of compliance for the year.

TABLE 8
1987 NON-COMPLIANCE SUMMARY FOR SENAGE TREATMENT PLANTS

   Region 	Total   Number   of   S.T.P's	Number   of   S.T.P.'s   Assessed	S.T.P.'s	s Not Meet	ing Criter	ia for       + TP
   Southwest	 	     100	     47 	     3	     22	     31
West Central	   56	   53	   24 	   2 	6	   19 
   Central	   76	   68	   22 	i i 1	   2	   20
   Southeast	   67	   63	,     25	   5	15	     18
   Northeast	     82	     63	     16	   4	6	,     10
     Northwest 	     27	     24	   4 	     2	     2	     2
 	       412 	       371   	       138   (37%)	       17   (5%) 	     53   (14%)	 
     1986 	     407 	     362 	     151   (42%)	     18   (5%)	     47   (13%)	     126   (35%)

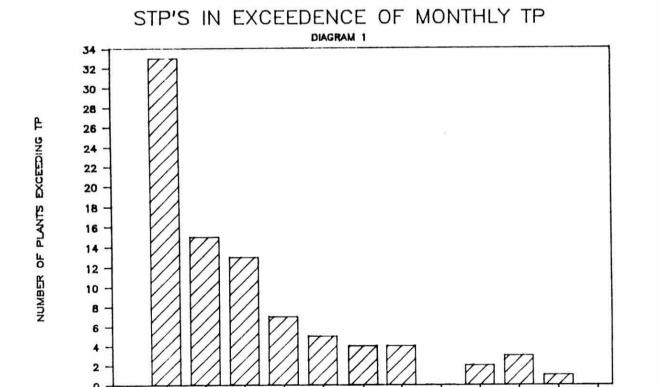
The figures within the parentheses are the percentages of the parameter as compared to plants assessed.

<sup>\*</sup> SS and BOD are assessed on an annual basis

<sup>+</sup> TP is assessed on a monthly basis; one or more months out of compliance means the plant is out of compliance for the year.

TABLE 9
TOTAL PHOSPHORUS (MONTHLY) NON-COMPLIANCE SUMMARY
FOR CONTINUOUS DISCHARGE PLANTS

7 <del></del>	-		1	NUMBE	ROF	MONT	is no	N-COM	PLYI	NG		
REGION	1	2	3	4	5	6	7	8	9	10	11	12
SOUTHWEST	n	4	3		2	1	1 !		!	1 !		!
WEST CENTRAL	9	3	2	3	1		ļ	-	1	1	1	
CENTRAL	9	4	3	2	ļ		1	1			į	
SOUTHEAST	3	1	3	2	2	2	1	i	2	1	į	Ì
NORTHEAST	1	2	1	į	İ	1	1	į	į	1	į	į
NORTHWEST	į	1 j	1	į	į	į	į	į,	į	į	į	į
TOTAL	33	15	13	7	5	4	4	0	2	3	1	0



NUMBER OF MONTHS

#### 6.5 PLANTS NON-COMPLYING TWO AND THREE SUCCESSIVE YEARS

While non-compliance in any one year is undesirable, failure in two and three successive years indicates that remedial action plans must be reassessed or implemented as soon as possible. Appendix A reveals that 48 plants failed to meet the Ministry guidelines for 2 consecutive years while 46 failed three years in a row. Table 10a-e lists those plants failing three consecutive years. MOE is currently investigating a strategy to prioritize STP's according to their degree of non-compliance.

#### 6.6 REMEDIAL MEASURES

All STP's that are not performing efficiently must develop a remedial action plan to either upgrade their treatment processes and/or improve their operating procedures. Often remedial programs are prolonged because of funding problems.

Fifty-seven STP's out of compliance in 1986 (36 of which reported remedial programs) improved their operations or upgraded their facilities sufficiently to meet compliance in 1987. Unfortunately, 44 different plants failed compliance in 1987. All STP's should strive to consistently meet effluent guideline limits.

Currently, 116 (84 %) of the 138 plants out of compliance have some form of remedial action. This is a great improvement over last year in which only 95 (63 %) out of 151 non-complying plants had remedial action. Of the 22 plants with no remedial action, 8 are operated by MOE. Appendix A includes a summary of plants which have remedial action in 1987. Appendix B elaborates on these remedial actions on a plant specific basis.

This year, Central Region has the least number of remedial programs: only 13 plants have remedial action out of 21 non-complying plants. Southwest has the most remedial programs: 44 plants with remedial action out of 47 non-complying plants.

All plants that failed compliance for three successive years have remedial programs.

TABLE 10A

## PLANTS FAILING COMPLIANCE FOR THREE SUCCESSIVE YEARS

REGION: SOUTHWEST

FACILITY		1987			1986			1985			
- TANICITY	BOD	SS	TP	BOD	SS	ΤP	BOD	SS	19	REMEDIAL ACTION	ANTICIPATED COMPLIANCE
AMHERSTBURG	*		*		*	*	*	*	*	YES	87/09/30
+ AYLMER			*			*				YES	88/04/30
+ BLANDFORD-BLENHEIM (PLATTS.)		*			*		9	*		YES	
+ BLENHEIM		*			*	*				YES	
CLINTON			*			*				YES	1990
+ DUTTON		*								YES	
+ EAST ZORRA-TAVISTOCK	*	*	*				*		*	YES	88/04/30
+ FOREST		*			*	li U		*		YES	
KINGSVILLE			*			*				YES	88/06/30
+ POINT EDWARD			*	*					*	YES	
+ RIDGETOWN	*	*	*		*	*				YES	88/01/31
+ RODNEY	*	*	*	*	*	*			*	YES	
+ SOMBRA (PORT LAMBTON)	- 5	*			*	*	18	*		YES	
+ STEPHEN (GRAND BEND)	10	*	1		*					YES	
STRATHROY			*			*			*	YES	1988
+ THEDFORD		*			*			*		YES	1300
+ WEST LORNE					*	*		*		No.	00/01/21
30,000								•		YES	90/01/31

<sup>+</sup> Operated by the Ministry of the Environment

TABLE 10B

### PLANTS FAILING COMPLIANCE FOR THREE SUCCESSIVE YEARS

REGION: WEST CENTRAL

FACILITY		1987			1986			1985		DEMEDIA	************
	BOD	SS	TP	BOD	SS	TP	BOD	SS	TP	ACTION	ANTICIPATED COMPLIANCE
+ CAMBRIDGE (HESPELER)			*	*	*	*	*	*	*	YES	90/09/30
FORT ERIE (CRYSTAL BEACH)		*	*	*	*	*		*	*	YES	
+ NANTICOKE (JARVIS)		*			*		*	*		YES	1989
+ PALMERSTON		*		*	*		*			YES	89/01/31
+ WOOLWICH (ELMIRA)			*			*	*	*	*	YES	1989
	<u> </u>						74				

+ Operated by the Ministry of the Environment

TABLE 10C

## PLANTS FAILING COMPLIANCE FOR THREE SUCCESSIVE YEARS

REGION: CENTRAL

FACILITY		1987			1986			1985		DEMENTAL	
	800	SS	TP	80D	SS	TP	BOD	SS	TP	ACTION	ANTICIPATED COMPLIANCE
BRIGHTON			*			*			*	YES	
COBOURG (NO 1)			*			*			*	YES	89/01/01
COBOURG (NO 2)			*			*			*	YES	
COLLINGWOOD			*			*			*	YES	<u>g</u>
METRO TORONTO (HUMBER)		20 89	*			*			*	YES	
STAYNER		*	*		*	*				YES	E.
									1		

<sup>+</sup> Operated by the Ministry of the Environment

TABLE 10D

PLANTS FAILING COMPLIANCE FOR THREE SUCCESSIVE YEARS

REGION: SOUTHEAST

EAGLI LTV		1987			1986			1985		DEMENTAL	ANTICIPATED
FACILITY	BOD	SS	TP	BOD	SS	TP	800	SS	TP	ACTION	COMPLIANCE
ARNPRIOR	*	*	*	*	*	*	*	*	*	YES	92/01/31
+ CARLETON PLACE		*	*		*	*		*	*	YES	
+ CORNWALL	*		*	*		*	*			YES	
+ ERNESTOWN (AMHERSTVIEW)								*		YES	
GLOUCESTER (GREEN CREEK)			*		*	*		*	*	YES	90/12/31
KEMPTVILLE		*	*							YES	
+ MERRICKVILLE			*							YES	89/12/31
NAPANEE		*			*					YES	88/12/31
+ PETAWAWA			*			*	*	*	*	YES	
RENFREM			*			*		}	*	YES	
SMITHS FALLS			*				*		*	YES	
			İ					1			

<sup>+</sup> Operated by the Ministry of the Environment

TABLE 10E

PLANTS FAILING COMPLIANCE FOR THREE SUCCESSIVE YEARS

REGION: NORTHEAST

FACILITY	1987			1986				1985			
	BOD	SS	TP	800	SS	TP	BOD	SS	TP	ACTION	ANTICIPATED COMPLIANCE
COCHRANE		*			*			*		YES	90/12/31
+ GORE BAY		*			*			*		YES	
KAPUSKASING (BRUNETVILLE)		*	*		*		*	*		YES	88/11/30
+ KIRKLAND LAKE			*	,		*			*	YES	
NICKEL CENTRE (FALCONBRIDGE)	*	*		*	*		*	*		YES	89/12/31
+ NORTH BAY	, la		*					*	*	YES	
TIMMINS (BOB'S LAKE)	*			*	*	3		*		YES	

<sup>+</sup> Operated by the Ministry of the Environment

#### 6.7 <u>HISTORICAL REVIEW</u>

Effluent requirements identified in Policy 08-01 were implemented in early 1983. For comparative purposes, the same requirements were applied to compare the STP compliance status from 1981 to 1987.

Table 11 compares non-compliance facilities on AN ANNUAL AVERAGE BASIS from 1981 to 1987. 1985, 1986 and 1987 phosphorus assessment was done on an <u>ANNUAL AVERAGE BASIS</u> for <u>COMPARATIVE PURPOSES</u> only!

When facilities are assessed on an annual average basis, in Table 11, the number of plants exceeding effluent criteria does not change significantly from year to year. A direct comparison of compliance status is difficult, since the criteria for assessing insufficient data has changed over the years. Also, in 1987, the plants with no discharge to surface water were not included in the number of plants assessed. The data presented in the 1986 report was adjusted to enable a direct comparison with 1987 data. Different assessment criteria can bias compliance results.

The TP compliance criteria was changed from an annual to a monthly basis in 1983. Monthly TP has been reported since 1985. Table 12 compares the total facilities exceeding monthly TP requirements from 1985 to 1987. An improvement in compliance with TP has been seen over the past three years eg. 53 % of the plants requiring phosphorus removal were out of compliance in 1985 but only 38 % were out of compliance in 1987.

TABLE 11
ANNUAL COMPLIANCE SUMMARY FOR
SEWAGE TREATMENT PLANTS (1981-1987)
(All Parameters)

	Number   of	STP's wit  Insuffici		STP's	STP's   Exceeding
Year	Facilities	Data	As	ssessed	Criteria
1981	389	   NR	<	389	94
1982	392	NR	i <	392	107
1983	391	NR	j <	391	100
1984	400	14 *	t j	386	89
1985	403	20 1	** j	383	99
1986	407	17 1	***	362	66
1987	412	į 8 <sup>,</sup>	***	371	73

< - less than

NR - Not Recorded

\* - Minimum of 1 month of data reported
\*\* - Minimum of 6 months of data reported
\*\*\* - Minimum of 9 months of data reported

TABLE 12
MONTHLY COMPLIANCE SUMMARY FOR
SEWAGE TREATMENT PLANTS
(Total Phosphorus)

Year	Total Number of   Facilities with   Phosphorus Removal	Number of Facilities   Exceeding Monthly   Requirements
1985	250	132
1986	258	126
1987	262	100

#### 7.0 BYPASSES

Bypass is the discharge of raw sewage or partially treated sewage to a natural waterway by a STP or collection system. Many secondary plants are designed to provide partial treatment at primary clarifiers during high flows. This type of bypass is referred to as secondary bypass.

Bypasses may occur for a number of reasons such as:

- An increase in hydraulic loading due to infiltration or runoff from a storm event or spring thaw;
- Operational problems;
- 3. STP is under sized.

Often bypasses are necessary during storm events or spring thaw to prevent solids from being washed out from the biological treatment process in a secondary plant or to prevent flooding of the STP's and surrounding areas eg. residential basements. Other times, bypasses can be prevented by expanding the treatment plant or properly maintaining process equipment.

In 1987, the Ministry requested regional staff to report the volume, duration and number of instances of bypasses. Appendix C summarizes the monthly bypass data for individual STP's.

Fourteen plants reported no bypass occurrences in 1987. Sixty-two plants, or 17% of the total number of plants, reported one or more bypass(es). The actual number of STP's which have bypassed in 1987 is unknown.

A number of deficiencies in the database were further identified as follows:

- There are many gaps in the database.
   Only 4 plants submitted the complete set of data for volume, duration and number of instances for secondary bypass and 10 plants for raw sewage bypass.
- Most STP's do not have flow monitoring devices for bypasses , thus resulting in poorly estimated volume.
- 3. Frequently, there are no devices to record the occurrence of a bypass. Bypass occurrences in the middle of the

night will go unnoticed. As a result, the number of instances and duration of bypasses can be higher than the data reported.

4. The definition of bypass is not well defined. Some STP's report bypasses at pumping stations as well as within the plant while others only report bypasses that occur within the plant.

Keeping these deficiencies in mind, Table 13 which summarizes the total volume, duration, number of instances and ratio of volume of bypass to treated effluent for raw sewage bypass and secondary bypass should be treated as cursory information only.

TABLE 13
SUMMARY OF PLANT & SECONDARY BYPASSES

			PLANT BY				SECONDARY BYPASS							
	VOLUME  (1000m3)	1	DURATION (Hrs)	11	MES	1 0	(%)	(100	00m <b>3</b> )	1	DURATION (Hrs)	11	IMES	(%)
Total Maximum	4606.370  2160.500	•	9800.0 7896.5	1	413	1 0.	47	4791.  1228.	.170	١		. <b>.</b>   	274	0.49
Minimum	0.010  -	  -	0.5	1	1	0.0	00	0. 	.300	İ	0.2	į	2	0.02

<sup>\*</sup> Ratio(%) is the Bypass Effluent over Treated Effluent (Expressed in Percent)

Table 13 shows that the volume of secondary bypass was greater than raw sewage bypass by 2%. The longest duration of raw sewage bypass was from Carleton Place but volume was not reported. It appears that this plant bypassed every day, all year long. Windsor Little River discharged the greatest volume (4606 1000 m^3) of raw sewage bypass as well as the highest ratio of bypass to annual effluent flow (18%). However, Windsor did not report duration or number of instances. Campbellford bypassed raw sewage 246 times but this constituted only 4% of its total treated effluent.

For secondary bypass, Chatham discharged the greatest volume making up 13 % of its total treated effluent. Belleville had the greatest number of times and duration but bypassed 9 % of its total treated volume. Sidney (Batawa) discharged the

greatest ratio of secondary bypass to treated effluent, that being 17 %.

Since this is the first year that bypasses are reported, it is expected that the data will be more complete in 1988.

In addition, more stringent monitoring and reporting of bypass information will be required under the MISA (Municipal Industrial Strategy for Abatement) program. The additional information will be used by the Ministry to develop effective bypass reduction measures.

#### 8.0 FUTURE ACTIONS

MISA was a program introduced by the MOE in 1986. The goal of MISA is to virtually eliminate toxins from natural waterways. This will be achieved by developing effluent limits based on the Best Available Technology Economically Achievable (BATEA). All liquid effluent, including bypasses, and sludge from STP's will be addressed under this program.

Regulations are being developed to clearly inform municipalities of the requirements for effluent quality, sampling and analysis.

The MISA Regulations are being developed in three phases. The premonitoring phase of the MISA Municipal program is underway. An intensive sampling study of 40STP's was carried out in 1987. Influent, effluent and sludge were analyzed for over 180 contaminants. A final report is expected in the fall of 1988. Data from the premonitoring phase will be used to develop monitoring regulations for all STP's in Ontario.

The development of the monitoring regulation began in 1988. All STP's will be required to carry out frequent monitoring of an extensive list of contaminants. The list will include conventional parameters, such as BOD, SS and TP, as well as toxic metals and organics. Methods for sampling and analyses will also be clearly specified in the regulation and audited. The monitoring data will then be used to develop the BATEA effluent criteria.

An Effluent Limits Compliance Regulation will be developed in the last phase. It will stipulate the concentrations and/or loadings STP's must meet before they discharge. The BATEA effluent criteria will serve as the minimum requirements for all STP's in Ontario. For those STP's that discharge into sensitive watercourses, more stringent site specific limits will be developed.

In addition to tightening the control of sewage effluent quality, the Ministry is developing a sewer-use program. This program will regulate industrial discharges to municipal sewers, thereby enhancing the quality of raw sewage, effluent and sludge at STP's.

#### 9.0 ENQUIRIES

Enquiries about specific STP's may be directed to the Ministry's Regional Offices or District Offices. These addresses and phone numbers are available in Appendix B at the beginning of each Regional section.

Copies of this report are available from:

Communications Branch,
Ministry of the Environment,
135 St. Clair Ave. W., 6th Floor,
Toronto, Ontario
M4V 1P5
323-4321

Enquiries concerning this report may be directed to:

Ministry of the Environment, MISA Municipal Office, Water Resources Branch, 1 St. Clair Ave. W., 7th Floor, Toronto, Ontario. M4V 1K6 323-4995 323-4981

## APPENDIX A

# SEWAGE TREATMENT PLANTS EXCEEDING EFFLUENT REQUIREMENTS AND REMEDIAL MEASURES FOR 1987

### ABBREVIATIONS IN APPENDIX A

CST	Communal Septic Tank
Lc	Continuous Lagoon
Ls	Seasonal Lagoon
P	Primary Treatment Plant
PR	Phosphorus Removal
S	Secondary Treatment Plant

BOD & SS are assessed on an annual average

The value for TP is the annual average. The value in brackets represents the number of months that the plant was out of compliance for TP.

REGION : SOUTHWEST

	1 1	1987	NON-COMPLIA	ICE	i		l	1
	1 1		PARAMETERS		1		ĺ	l
MUNICIPALITY	TREATMENT				1		REMEDIAL	ANTICIPATED
PLANT	TYPE	BOD	SS	TP 	1986	1985	PROGRAM(S)	COMPLIANCE
AMHERSTBURG	P,PR		ļ.	l I 0.91		*	l YES	87 / 09 / 30
AMEROTORIO	1		ì	(3)	1 1		1	1
+AYLMER	Ls,PR		i	1 1.55	i * i		l YES	88 / 04 / 30
-Al Erich	1	K! 	l L	(5)	1		1	1
+BELMONT	Ls,PR		i	0.88			i YES	i
	1		i	(1)	ì			i
+BLANDFORD-BLENHEIM	Ls,PR		31.40	i		*	l YES	i
(PLATTSVILLE)	1		i	i	i		i	i
+BLENHEIM	Ls,PR	8 13 13	48.30	i	i * i	*	YES	i
user was quase 55550	The state of the s	Ì	i	i	i i		i	i
CHATHAM	S,PR		26.10	0.95		*	I YES	i
	i i		i	(5)	i i		i	ĺ
CHESLEY	Lc,PR		i	0.86	i i		I NO	i
	1		i	(2)	i		i	i
CLINTON	S,PR		i	0.70	i • i	*	YES	1990
	1		ĺ	(2)	Ì		Ì	i
+DRESDEN	S,PR		j	0.46	i * i		YES	i
	1			(1)	i i		1	i
+DUTTON	Ls,PR		48.70	3.42	i • i	*	YES	İ
	1		1	(1)	i i		Ī	ľ
+EAST WILLIAMS (AILSA	S,PR		ı	0.74			YES	89 / 01 / 31
CRAIG)	1		1	(1)	1		ĺ	1
+EAST ZORRA (TAVISTOCK)	Ls,PR	30.80	51.30	1.31	*	*	YES	88 / 04 / 30
	1		1	(1)	1 1		1	1
+ENNISKILLEN (OIL CITY)	Ls,PR		53.60	1	1 1	*	YES	1
+FOREST	Ls		62.30			*	YES	į
GODERICH	S,PR		l I	0.88			i NO	I I
			I	(3)			Ī	Ī
+GOSFIELD NORTH (COTTAM)	Ls,PR		51.30	İ			YES	Ì
HANOVER	S,PR		1	0.78			l   YES	i   1988
	1 1		•	1 (2)			1	1

<sup>+ =</sup> MOE OPERATED PLANT

<sup>\*</sup> INDICATES PLANT WAS OUT OF COMPLIANCE FOR THAT YEAR

REGION : SOUTHWEST

	1 1	1987	NON-COMPLIA	NCE	1		1	1
	1 1		PARAMETERS		Î		i	İ
MUNICIPALITY	TREATMENT	2			Î		REMEDIAL	ANTICIPATED
PLANT	TYPE	BOD	SS	TP 	1986	1985	PROGRAM(S)	COMPLIANCE
+HARROW	Ls,PR		32.10	0.87	!     		YES	İ
	Ì		Î	(1)	i i			1
+INGERSOLL (NEW)	S,PR		Î	0.60			YES	89 / 01 / 31
	1		I	(2)	i i		1	i
KINGSVILLE	Ls,PR		I	1.24	1 * 1	*	YES	88 / 06 / 30
	1		1	(3)	1 1		1	1
+LISTOWEL	Lc,PR	l	1	0.94	*		YES	1
				(1)	1 1		l	1
LONDON (GREENWAY)	S,PR		I	0.70	1 1		YES	1
	l		ļ	(1)	1 1		1	1
LONDON (OXFORD)	S,PR			0.66	*		YES	1
	1		l	(1)	1 1		l	l
+MAIDSTONE (BELLE RIVER -	S,PR		ļ.	0.68	*		YES	90 / 06 / 30
MAIDSTONE)	1			[ (1)	!!			I
+MITCHELL	Ls,PR		89.80	ļ	!!!		YES	ļ
+OIL SPRINGS	Lc,PR		75.20		i i		l   YES	1 
+OWEN SOUND	P,PR	<u>.</u>	1	0.69	   *		   YES	   88 / 01 / 31
	1		Î	(1)	i i		1	
+PAISLEY	S,PR		I	1.75	ì i		YES	i
	1		Î	(7)	l i		ĺ	İ
+PLYMPTON (WYOMING)	S,PR			0.45	1 1		YES	88 / 09 / 30
	1		İ	(1)	1 1		l	1
+POINT EDWARD	P,PR		1	1.87	1 * 1	*	YES	l
	1		1	(10)	1 1			I
+PORT BURWELL	S,PR		1	0.50	*		YES	88 / 01 / 31
. BALETAN THE BUTCH			1	(1)	1 1			ľ
+RALEIGH TILBURY E	Lc,PR		92.00	1	1 * 1		YES	ļ
(MERLIN)	!	70.00	1	1	1 1			l
+RIDGETOWN	Ls,PR	32.00	51.80	1.53	*	*	YES	88 / 01 / 31
TDOUNEA	1 10 00	27.70	1 4/2 55	(2)				
+RODNEY	Ls,PR	27.30	162.90	1.73	* !	*	YES	!
	1 1		1	(1)	1 1			

<sup>+ =</sup> MOE OPERATED PLANT

<sup>\*</sup> INDICATES PLANT WAS OUT OF COMPLIANCE FOR THAT YEAR

REGION : SOUTHWEST

MUNICIPALITY	      TREATMENT	1987	NON-COMPLIA PARAMETERS	NCE	1 1		     REMEDIAL	     ANTICIPATED
PLANT	TYPE	BOD	ss	TP	1986   	1985		COMPLIANCE
+SOMBRA (PORT LAMBTON)			113.50	į Į	i ! *	*	YES	 
+SOMBRA (SOMBRA)	Ls,PR		62.60	i	i i		   YES	! 
ST. EDMUNDS (TOBERMORY)	Lc		46.30	1	!!!		   NO	 
+STEPHEN (GRAND BEND)	Ls,PR		50.90	1	•	*	   YES	! !
+STRATFORD	S,PR		ļ	0.34			   YES	   88 / 01 / 31
STRATHROY	Lc,PR		ļ	(1)	*	*	l   YES	   1988
+THAMESVILLE	S,PR			0.49	i i		   YES	87 / 06 / 30
+THEDFORD	Lc		57.30	(1)	•	*	   YES	! !
+TILBURY NORTH (STONEY POINT)	Ls,PR		47.20	1	! !		   YES	!
+TILBURY WEST (COMBER)	Ls,PR		28.00	!			   YES	!
+TUCKERSMITH (VAN ASTRA)	S,PR			0.90			   YES	   88 / 01 / 31
WALKERTON	S,PR			(3)	•		   YES	   89 / 12 / 31 
+WEST LORNE	Ls,PR		34.10	(5)	•	*	   YES	   90 / 01 / 31
					I I I I			l I

<sup>+ =</sup> MOE OPERATED PLANT

<sup>\*</sup> INDICATES PLANT WAS OUT OF COMPLIANCE FOR THAT YEAR

REGION : WEST CENTRAL

			NON-COMPLIAN	ICE	ļ		l	
MUNICIPALITY	TREATMENT		PARAMETERS		! !		I   REMEDIAL	I I ANTICIPATED
PLANT	TYPE	BOD	ss	TP	1986	1985	PROGRAM(S)	COMPLIANCE
+BRANTFORD (BRANTFORD)	S,PR		l I	0.95			l NO	
	İ		i	(3)			i	i
+CAMBRIDGE (HESPELER)	S,PR	İ	1	1.04	<b>i</b> * i	*	YES	90 / 09 / 30
	1		I	(2)	1		l	l
DUNDAS	S,PR		1	0.45	1 1		YES	88 / 08 / 31
+FERGUS	S,PR		   28.30	(1)		5	l YES	   91 / 09 / 30
T ERGOS	3,5%	l I	1	11 11			1 153	91 / 09 / 30 
FLAMBOROUGH (WATERDOWN)	S,PR	i	i	0.56	*		YES	88 / 01 / 31
	1		1	(1)				l .
FORT ERIE (ANGER AVE.)	P,PR	l	1	0.78	*	1	YES	1
			1	(1)				1
FORT ERIE (CRYSTAL	S,PR	ļ	34.50	1.26	*	*	YES	Į.
HALDIMAND (CALEDONIA)	   S,PR	l !	l i	(5)   0.76			 	!
THE THANK (CALEBONIA)	3,FK 	l i		(1)			YES	] 
+HALDIMAND (HAGERSVILLE)	S,PR	! 	i i	0.76	i		l YES	l.
		i	i	(4)	i	l	1	i. I
HAMILTON (WOODWARD AVE.)	S,PR	27.40	İ	0.95	i	*	YES	89 / 01 / 01
		İ	İ	(4)	i		i	i
+KITCHENER	S,PR	[	1	0.79	İ	İ	YES	İ
	1	1	İ	(1)	I		1	Ĩ
MOUNT FOREST	S,PR	l	ł	1.48	l	*	l NO	l
	ļ	1	l	(11)	l	l	1	I
+NANTICOKE (JARVIS)	Ls,PR	ļ	41.70		! *	*	YES	1989
+NANTICOKE (PORT DOVER)	   P,PR	 		0.70	*		l YES	   90 / 01 / 01
	Ì	İ	İ	(2)	i		i	I
NIAGARA FALLS (STAMFORD)	P,PR	İ	ĺ	0.70	*	i	I NO	i
		l		(1)	l	l	1	I
+NORFOLK (PORT ROWAN)	Ls,PR	ļ	28.20	ļ			YES	ļ
+PALMERSTON	l s	   63.10	   40.40	l I			   YES	   89 / 01 / 31
				I		!	!	!
	-1			.				

<sup>+ =</sup> MOE OPERATED PLANT

<sup>\*</sup> INDICATES PLANT WAS OUT OF COMPLIANCE FOR THAT YEAR

REGION : WEST CENTRAL

TREATMENT	BOD	700					
	5.55	SS	TP	1986	1985	REMEDIAL   PROGRAM(S) 	ANTICIPATED  S)   COMPLIANCE
   S,PR		i	   0.81	*		YES	1989
		į	0.48			   YES	
			0.60	•		YES	 
		53.60	1 (1)			YES	!   
S,PR			0.89	•		YES	   88 / 03 / 31 
S,PR		i	0.86	•		YES	   1989 
S,PR			0.71	i * i		YES	i I
	S,PR	S,PR	S,PR	(2)  S,PR     0.48       (1)  S,PR     0.60       (1)  LS    53.60         0.89       (3)  S,PR     0.86     (4)  S,PR     0.71	(2)		

<sup>+ =</sup> MOE OPERATED PLANT

<sup>\*</sup> INDICATES PLANT WAS OUT OF COMPLIANCE FOR THAT YEAR

REGION : CENTRAL

MUNICIPALITY	      TREATMENT		NON-COMPLIA PARAMETERS	NCE		8		
PLANT	TYPE	BOD	ss	TP	1986	1985	REMEDIAL   PROGRAM(S) 	ANTICIPATED COMPLIANCE
+BOBCAYGEON				0.43	•		YES	
BRIGHTON	Lc,PR			0.83	•		   YES	! 
+CAMPBELLFORD	S,PR		l) L	0.77	•		   YES	Î 
COBOURG (NO 1)	S,PR		ri Vi	0.89	•	*	   YES	   89 / 01 / 01
COBOURG (NO 2)	S,PR			0.68	i • i	*	YES	
COLLINGWOOD	S,PR	Ì		0.83	•	٠	YES	    -
+FENELON FALLS	S,PR			0.52	•		NO	! !
GEORGINA (SUTTON)	S,PR			0.37	•		l No	 
HALTON HILLS (ACTON)	S,PR			0.56	   •		   NO	[ [
+HASTINGS	S,PR			0.53	 		l no	 
LINDSAY	Lc,PR			0.74			YES	   88 / 06 / 30
METRO TORONTO (HUMBER)	S,PR	9		0.94		*	YES	   88 / 08 / 01
MIDLAND	S,PR			0.62	•		NO	 
+MISSISSAUGA (LAKEVIEW)	S,PR			0.74	1 1		YES	
MUSKOKA LAKES (BALA)	CST,PR			0.89		*	YES	   90 / 12 / 31
NEWCASTLE (PORT DARLINGTON)				(2)   0.89   (2)	   *		NO	

<sup>+ =</sup> MOE OPERATED PLANT

<sup>\*</sup> INDICATES PLANT WAS OUT OF COMPLIANCE FOR THAT YEAR

REGION : CENTRAL

MUNICIPALITY	    TREATMENT	1987	NON-COMPLIA PARAMETERS	NCE	1		     REMEDIAL	     ANTICIPATED
PLANT	TYPE	BOD	SS	TP	1986	1985	PROGRAM(S)	COMPLIANCE
OAKVILLE (SOUTHWEST)			İ	0.72	i i		l NO	i i
PERCY	Ls		   71.70	(1)	! !		l NO	! !
PETERBOROUGH	S,PR			1.04	*		   YES	   87 / 09 / 30
STAYNER	Ls,PR	53.70	26.00	1.30	i • i	*	l YES	! !
WHITBY (CORBETT CREEK)	S,PR			1.58	i • i		   YES 	   89 / 12 / 31 

<sup>+ =</sup> MOE OPERATED PLANT

<sup>\*</sup> INDICATES PLANT WAS OUT OF COMPLIANCE FOR THAT YEAR

REGION : SOUTHEAST

,		1987	NON-COMPLIAN	CE				l
ı	l j		PARAMETERS		1		ļ	ľ
MUNICIPALITY	TREATMENT				L		REMEDIAL	ANTICIPATED
PLANT	TYPE   	BOD	ss 	TP 	1986   	1985	PROGRAM(S)	COMPLIANCE
+ALEXANDRIA	   Lc,PR			0.60	   *		   YES	   
	İ		10	(4)	i i		i	i
ARNPRIOR	P,PR	47.10	38.90	1.15	i * i	*	YES	92 / 01 / 31
		(46%)	(45%)	(4)	i i		Ì	ĺ
+BELLEVILLE	S,PR	25.80	1		*		YES	İ
BROCKVILLE	P,PR		i	2.08	   *		   YES	89 / 04 / 30
	l 1		1	(9)	1 1		l	l
+CARLETON PLACE	S,PR		79.60	2.16	*	*	YES	1
			1	(6)	1 1		1	l
+CORNWALL (CORNWALL)	P,PR	38.50	1	0.99	1 * 1	*	YES	1
		(46%)	1	(5)	ļ ļ		!	PROPERTY FOR WARE IN BOXES
DELORO	CST		62.30	1	1 1	*	YES	89 / 12 / 31
+EAST HAWKESBURY (CHUTE A			(32%)		!!!			!
BLONDEAU)	S		34.30		!!!		NO NO	!
+ERNESTOWN (AMHERSTVIEW)	l I I Lc I		1 60.40	ŀ	! . !			!
PERRESTOWN (APPRENSIVIEW)	1		1 60.40	1	1 " 1	•.0	YES	 
GLOUCESTER (GREEN CREEK)	IP,PR		1 32.50	2.21	1 + 1	*	l YES	   90 / 12 / 31
			(63%)	(10)	1 1		123	<del>1</del> 0 / 12 / 31
GOULBOURN (MUNSTER)	lLs I		41.50		i i		i NO	i
,	, (2.5)		1	í	i		, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	łej
+HAWKESBURY	S,PR		i	0.55	*		I NO	í
	İ		1	(1)	i i		i	i
IROQUOIS	P,PR	19.80	69.80	1.37	i i	*	YES	ĺ
j		(48%)	(60%)	(7)	1 1		ĺ	İ
KEMPTVILLE	P,PR		24.70	3.13	*	*	YES	I
	1		(69%)	(9)	1 1		l	I
+L'ORIGNAL	S   	26.50	32.50 	1	*		YES	88 / 01 / 31
+MERRICKVILLE	S,PR		29.30	1.06	*	*	YES	89 / 12 / 31
			I .	(5)	1 1		l	
	S,PR		28.90	1.43	1 * 1	*	l YES	88 / 12 / 31
NAPANEE				(6)				1 00 / 12 / 31

<sup>+ =</sup> MOE OPERATED PLANT

<sup>\*</sup> INDICATES PLANT WAS OUT OF COMPLIANCE FOR THAT YEAR

REGION : SOUTHEAST

MUNICIPALITY	 	1987	NON-COMPLIAN PARAMETERS	NCE			     REMEDIAL	     ANTICIPATED
PLANT	TYPE	BOD	ss	TP	1986	1985	PROGRAM(S)	Book Company Comment
PERTH		Decree Construction System		     0.61			     YES	     88 / 01 / 31
	i		i	(1)	i i		i	1
+PETAWAWA	P,PR		i	1.22	i • i	*	YES	İ
	1 1		i	(3)	i i		l	i
PICTON	S,PR		i	0.72	i i		YES	88 / 12 / 31
	1		1	(2)	1 1		1	1
RENFREW	P,PR		1	0.98	1 * 1	*	YES	1
	1 1		1	(3)	1 1		ĺ	1
+RUSSELL	Lc		58.00	1	1 1		YES	1
+SIDNEY (BATAWA)			1	l l 0.85			l no	
			i	(1)	1 1		, I	i
SMITHS FALLS	P,PR		27.80	0.93	i * i	*	I YES	i
	i i		(62%)	(3)	i i		i	i
+ST. ISIDORE DE PRESCOTT	Lc		41.00	İ	i • i		YES	İ
+WESTPORT			1	   1.09		*	   YES	   88 / 12 / 31
	1		i	(1)	i i			

<sup>+ =</sup> MOE OPERATED PLANT

<sup>\*</sup> INDICATES PLANT WAS OUT OF COMPLIANCE FOR THAT YEAR

REGION : NORTHEAST

	l 1	1987	NON-COMPLIANO	E	l			
	! !	ĵ	PARAMETERS		!	ě	1200130000 VS	
MUNICIPALITY PLANT	TREATMENT     TYPE   	BOD	SS	TP	1986	1985	REMEDIAL     PROGRAM(S)   	COMPLIANCE
+CALDWELL (VERNER)	Ls,PR			1.36		*	YES	,
COCHRANE	   s	41.70	1 190.40	(3)	•	3₩3	YES	90/12/31
+GORE BAY	   Ls		40.50		•	ρ∰α	YES	
+HAILEYBURY (LAKE TEMISKAMING NEW)	   S,PR		1	0.65			NO	ė.
IROQUOIS FALLS (PORQUIS)	   Ls 	35.50	498.20	(2) 	! !	Ü.	   YES	88 / 12 / 31
KAPUSKASING (BRUNETVILLE)	Lc,PR		33.60	2.96   (10)	ļ •		YES	   88 / 11 / 30
+KIRKLAND LAKE	S,PR		İ	0.63	į •	*	YES	
+LATCHFORD	S		25.60	İ	i .	i	YES	ĺ
NEW LISKEARD (FALCONBRIDGE TOWNSITE)	L   L, PR 	! ! !		   1.4   (6)	! !	   	   YES	   87/07/31
NICKEL CENTRE (FALCONBRIDGE TOWNSITE)	s	29.40	1   31.20	(0) 	¦ •		YES	   89 / 12 / 31
+NORTH BAY	S,PR	 	İ	1.08	·	•	YES	!
+NORTH HIMSWORTH (CALLANDER)	Ls,PR 	! !		0.91	i I	i I	YES	   90 / 05 / 01 
+SAULT STE. MARIE (WEST END)	S,PR	 	1	0.85	i •		l no	
+STURGEON FALLS	S,PR		1	0.74			YES	   
TIMMINS (BOB'S LAKE)	Lc 	33.30 		1	! *		YES	!
VAL RITA-HARTY (VAL-RITA)	Ls,PR		i	   1.52   (1)	İ		l NO	! !

<sup>+ =</sup> MOE OPERATED PLANT

<sup>\*</sup> INDICATES PLANT WAS OUT OF COMPLIANCE FOR THAT YEAR

REGION : NORTHWEST

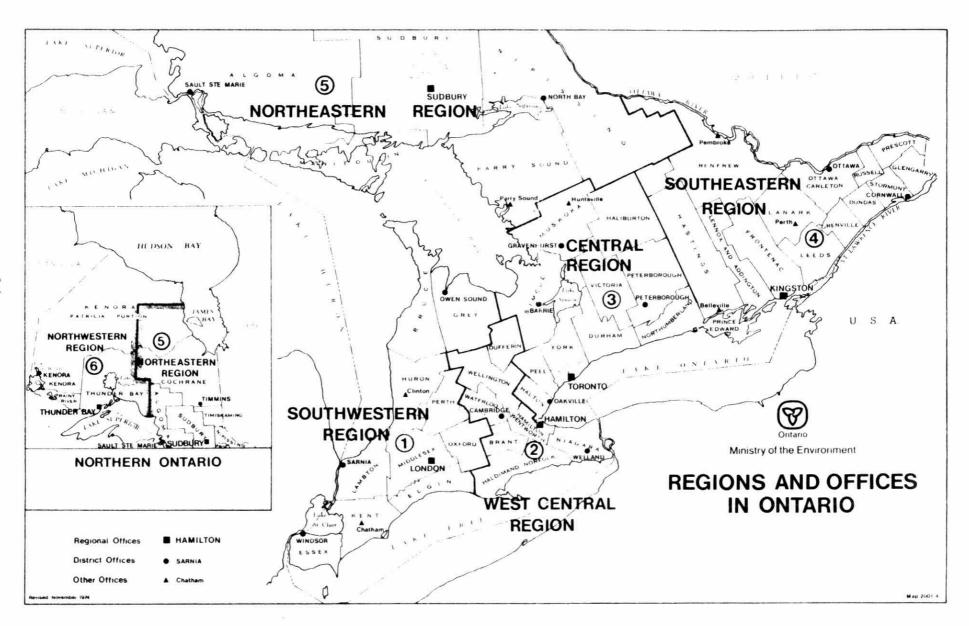
		1987	NON-COMPLI PARAMETERS		1			[ [
MUNICIPALITY	TREATMENT	200	1 66	1 70	1 1004 1	1005	REMEDIAL	ANTICIPATED
PLANT	TYPE    _	BOD	SS l	TP 	1986   _	1985	PROGRAM(S)	COMPLIANCE
+ATIKOKAN	   S,PR		1	   0.81	1 * 1		   YES	   88 / 03 / 31
	1 1		1	(2)	1 1			I
FORT FRANCES	P	46.10	83.30	1	1 * 1		YES	1995
	1 1	(28%)	(41%)	1	ř i			ĺ
+SCHREIBER	S	28.30	33.30	1	1 1		YES	1990
	1			I	1			1
THUNDER BAY	P,PR		1	1.00	1 * 1		NO	ĺ
	1 1		Ĭ	(3)	1 1		1	I

<sup>+ =</sup> MOE OPERATED PLANT

<sup>\*</sup> INDICATES PLANT WAS OUT OF COMPLIANCE FOR THAT YEAR

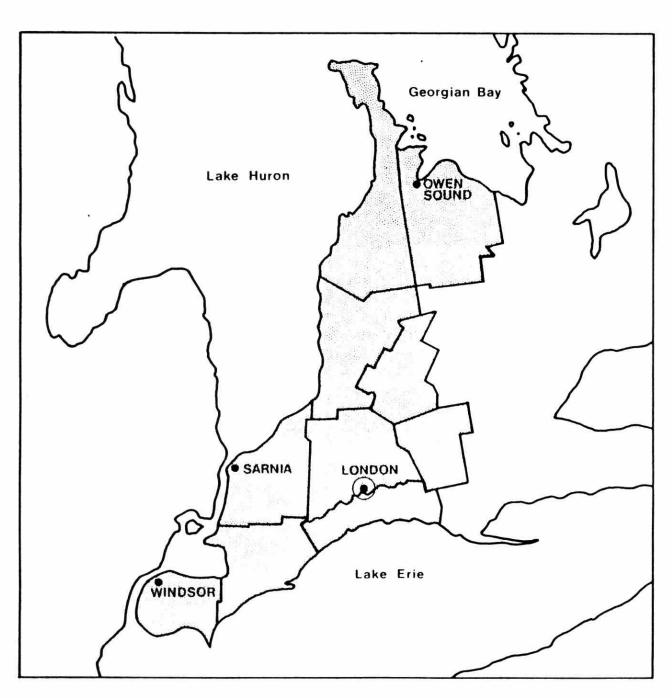
# APPENDIX B

SEWAGE TREATMENT PLANTS
LISTINGS AND
OPERATING DATA
FOR 1987









### Southwestern Region



#### REGIONAL OFFICE

London 985 Adelaide St. South N6E 1V3 (519) 661-2200

#### DISTRICT OFFICES

London South 985 Adelaide St. South N6E 1V3 (519) 661-2200

London North 985 Adelaide St. South N6E 1V3 (519) 661-2200

Owen Sound 1180 20th St. East N4K 6H6 (519) 371-2901

Sarnia 265 North Front St. N7T 7X1 (519) 336-4030

Windsor 250 Windsor Ave. N9A 6V9 (519) 254-2546

#### SUB-OFFICES

Chatham c/o Ministry of Agriculture & Food 435 Grand Ave. West N7M 5L1 (519) 354-2150

Clinton c/o Ministry of Agriculture & Food P.O. Box 688 NOM 1L0 (519) 482-3428

#### SOUTHWESTERN SEWAGE SUMMARY - 1987

TREATMENT TYPE		NUMBER		2010/00/2	DRAULIC LOADING	
	MINISTRY	MUNICIPAL	TOTAL	MINISTRY	MUNICIPAL	TOTAL
Communal Septic Tank	0	0	0	.000	.000	.000
Primary	2	3	5	27.139	237.342	264.481 (58.179)
Conventional Activated Sludge	8	12	21	57.093	363.498	420.591 (92.519)
Modified Activated Sludge	0	0	0	.000	.000	.000
Contact Stabilization	0	1	1	.000	1.818	1.818
Extended Aeration	18	2	20	32.626	23.170	(.400) 55.797 (12.274)
Trickling Filter	0	0	0	.000	.000	.000
High Rate	1	0	1	3.909	.000	(.000) 3.909
Oxidation Ditch	2	° <u>1</u>	3	3.750	6.455	(.860) 10.205 (2.245)
Aerated Lagoon	1	2	3	1.122	8.578	9.701
Conventional Lagoon Continuous	2	1	3	3.609	1.459	(2.134) 5.068
Conventional Lagoon Seasonal	32	3	35	35.486	6.309	(1.115) 41.795
Conventional Lagoon Annual	5	0	5	2.145	.000	(9.194) 2.145 (.472)
Lagoon and Spray	1	0	1	.568	.000	.568
Aerated Cell Plus Lagoon	6	1	7	19.443	.168	19.611 (4.314)
Exfiltration Lagoon	0	0	0	.000	.000	.000 (.000)
TOTALS	78	26	104	186.895 (41.112)	648.800 (142.719)	835.695 (183.831)

103m/d: THOUSANDS OF CUBIC METRES PER DAY migd: Million imperial Gallons per Day 01307-PDR.44 CONVERSION FACTOR  $10^{3}m^{3}/d = .220 \text{ MIGD}$ 

### ABBREVIATIONS FOR APPENDIX B

%REM	Percent Removal
AVG	Average
BOD	Biochemical Oxygen Demand
EFF	Effluent
IJС	
INF	Influent
kg/d	Kilograms per day
m3/d	Cubic metres per day
mg/l	Milligrams per litre
P.V.	Police Village
SS	Suspended Solids
TP	Total Phosphorus
WPCP	

DISTRICT MUNICIPALITY : ALVINSTON : SOUTHWEST PLANT : ALVINSTON WPCP : SARNIA

WORKS NUMBER : 110002069 OPERATING AUTHORITY : MINISTRY

TREATMENT : EXTENDED AERATION WATERCOURSE : SYDENHAM RIVER

MAJOR BASIN PHOSPHORUS REMOVAL - CONTINUOUS : GREAT LAKES MINOR BASIN : LAKE ERIE

IJC DESIGNATION : INDIRECT DESIGN CAPACITY : 0.60 1000 m3

POPULATION SERVED : 647

1987	AVG DAY	1	5 DA	Y BOD		1	SUSPEN	DED SOLI	DS	1 1	TOTAL PHO	SPHORUS
	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	l 0.186	   41.0	1.5		0.279	   49.0	5.7		1.060	1 4 3	0.8	0.143
FEB	0.151	1 121.0	2.0		0.302	■1 ACC 552	6.9		1.042	0.000000	0.5	0.075
MAR	0.144	80.0	1.6		0.230	101.0	5.0		0.720		0.1	0.019
APR	0.176	115.0	7.3		1.285	146.0	5.7		1.003	6.9	0.8	0.132
MAY	0.122	94.0	0.1		0.012	108.0	4.3		0.525	5.2	0.3	0.039
JUN	0.108	94.0	2.5		0.270	128.0	9.6		1.037	5.7	0.4	0.041
JUL	0.138	81.0	2.9		0.400	120.0	6.1		0.842	6.3	0.6	0.083
AUG	0.085	195.0	4.2		0.357	208.0	12.3		1.046	7.5	0.4	0.032
SEP	0.106	122.0	1.4		0.148	99.0	7.8		0.827	7.3	0.4	0.041
OCT	0.132	133.0	1.7		0.224	133.0	6.3		0.832	8.3	0.2	0.020
NOV	0.106	135.0	1.9		0.201	87.0	5.1		0.541	7.0	0.2	0.024
DEC	0.224	124.0	4.0		0.896	166.0	12.0		2.688	6.9	0.5	0.112
	·	<u> </u>				1				<u> </u>		
AVERA	GE: 0.140	   111.0	2.6		0.384	1 120.0	7.2		1.014	   6.4	0.4	0.063
OBSER	VATIONS: 12	12	12			12	12			12	12	
EXCEE	DANCES	1				I				1		
NO OF	SAMPLES	17	17			16	17			17	17	
		1				1				1		

CRITERIA : COMPLIANCE : NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

BOD - YES BOD - 25 mg/l TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - YES SS - 25 mg/l \* - EXCEEDS EFFLUENT CRITERIA

TP - YES TP - 1.0 mg/l ND - NO DATA

ANTICIPATED

REMEDIAL MEASURES START DATE END DATE COMPLIANCE

MUNICIPALITY : AMHERSTBURG

PLANT : AMHERSTBURG WPCP

WORKS NUMBER : 120001087 TREATMENT : PRIMARY

PHOSPHORUS REMOVAL - CONTINUOUS

DISTRICT OPERATING AUTHORITY : MUNICIPAL

: SOUTHWEST : WINDSOR

WATERCOURSE

: DETROIT RIVER

MAJOR BASIN

: GREAT LAKES

MINOR BASIN

REGION

: LAKE ERIE

DESIGN CAPACITY :

7.76 1000 m3

IJC DESIGNATION

: DIRECT

POPULATION SERVED :

8500

1987	AVG DAY	1	5 DA	Y BOD		1	SUSPEN	DED SOLI	DS	1 1	TOTAL PHO	SPHORUS
	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	   10.058	   57.0	10.0	82	100.580	   88.0	15.3	83	153.887	   6.6	0.6	5.834
FEB	7.753	61.0	20.6	66	159.712	177.0	22.4	87	173.667	5.4	0.7	5.039
MAR	8.786	11.0	6.3	43	55.352	38.0	13.0	66	114.218	1.0	0.2	1.933
APR	10.600	238.0	33.9	86	359.340	579.0	17.4	97	184.440	8.9	1.9 *	20.14
MAY	8.076	145.0	36.1	75	291.544	146.0	24.0	84	193.824	2.3	0.9	7.34
JUN	ND ND	119.0	31.1	74	ND	140.0	26.2	81	ND	7.0	1.4 *	ND
JUL	ND ND	102.0	25.0	75	ND	228.0	25.0	89	ND	5.8	0.7	ND
AUG	8.806	54.0	20.0	63	176.120	59.0	24.2	59	213.105	3.6	1.8 *	15.41
SEP	7.553	117.0	40.0	66	302.120	131.0	28.1	79	212.239	2.9	0.9	6.64
OCT	5.510	ND	ND	0	ND	122.0	28.2	77	155.382	2.8	0.9	4.84
NOV	6.651	ND	ND	0	ND	111.0	25.7	77	170.931	3.5	1.0	6.45
DEC	9.754 	67.0 	24.3	64	237.022	108.0 	12.6	88	122.900	4.2	0.2	1.95
AVERA	GE: 8.355	97.0	24.7	69	210.224	   161.0	21.8	81	169.459	1 4.5	0.9	7.56
OBSER	VATIONS:10	1 10	10			1 12	12			1 12	12	
EXCEE	DANCES	i				i	8277			i	3	
NO OF	SAMPLES	1 15	10			31	31			26	26	

COMPLIANCE :

CRITERIA:

NOTE :

BOD - YES SS - YES

BOD - 50% SS - 70% BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

TP - NO

TP - 1.0 mg/l

\* - EXCEEDS EFFLUENT CRITERIA ND - NO DATA

ANTICIPATED

REMEDIAL MEASURES

START DATE END DATE

COMPLIANCE

SEWER SEPARATION UNDERWAY

87/07/01

87/09/30

87/09/30

REGION : SOUTHWEST MUNICIPALITY : ANDERDON DISTRICT : WINDSOR PLANT : EDGEWATER BEACH LAGOON OPERATING AUTHORITY : MINISTRY

WORKS NUMBER : 110002407 WATERCOURSE : DETROIT RIVER

TREATMENT : CONVENTIONAL LAGOON SEASONAL : GREAT LAKES PHOSPHORUS REMOVAL - CONTINUOUS MAJOR BASIN

MINOR BASIN : LAKE ERIE IJC DESIGNATION : INDIRECT DESIGN CAPACITY : 1.61 1000 m3

POPULATION SERVED: 1033

1987	AVO	DAY	1	5 0	AY BOD		1	SUSPEN	DED SOLI	DS	1	TOTAL PHO	SPHORUS
	FL	.OW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000	m3/d)	(mg/L	) (mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN		0.657	85.	O ND			   78.0	ND			1 6.4	ND	
FEB	•	0.787	57.				42.0	ND			5.1	ND	
MAR	•	0.432	57.	0 ND			47.0	ND			4.5	ND	
APR	i	0.599	89	O ND			73.0	ND			5.6	ND	
MAY	Ì	0.384	105	0 3.3			81.0	7.5			8.0	0.7	
JUN	1	0.568	34	O ND			246.0	ND			4.8	ND	
JUL	1	0.651	57.	0 ND			75.0	ND			6.8	ND	
AUG	1	0.202	86	O ND			39.0	ND			5.2	ND	
SEP	1	0.368	153	0 ND			46.0	ND			8.0	ND	
OCT	1	0.492	152	0 ND			119.0	ND			9.9	ND	
NOV	1	0.491	148	0 5.4			98.0	10.9			9.3	0.5	
DEC	1	0.768	1 13	0 ND			125.0	ND			5.4	ND	
	<u>!</u>		†				<u> </u>	V200 1000		TWT Destands	<del>i</del>	V2-18	227 (278)
AVERA		0.533	86			1.959	89.0	9.2		4.116		0.6	0.26
	DANCES		17	! 2			12 	2			12 	2	
NO OF	SAMP	.ES	1 1	15			14	15			14	15	

NOTE : CRITERIA : COMPLIANCE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

BOD - 30 mg/l TOTAL PHOSPHOR
SS - 40 mg/l \* - EXCEEDS
TP - 1.0 mg/l ND - NO DATA BOD - YES TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - YES \* - EXCEEDS EFFLUENT CRITERIA

TP - YES

ANTICIPATED

REMEDIAL MEASURES START DATE END DATE COMPLIANCE

NO ACTION

MUNICIPALITY : ANDERDON

PLANT : MCGREGOR LAGOON

WORKS NUMBER : 110002096

TREATMENT : LAGOON AND SPRAY

NO DISCHARGE

REGION

: SOUTHWEST

DISTRICT

: WINDSOR OPERATING AUTHORITY : MINISTRY

WATERCOURSE

: KING'S CREEK

MAJOR BASIN

: GREAT LAKES

MINOR BASIN

: LAKE ERIE

IJC DESIGNATION : INDIRECT

DESIGN CAPACITY : 0.56 1000 m3

POPULATION SERVED: 1287

1987	AVG	DAY	1	5 DA	Y BOD		1	SUSPEN	DED SOLI	DS	1 1	TOTAL PHO	SPHORUS
	FL	OW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000	m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	1	0.377	1 103.0	ND		ND	137.0	ND		ND	   7.6	ND	ND
FEB	1	0.379	137.0	ND		ND	178.0	ND		ND	7.9	ND	ND
MAR	1	0.476	184.0	ND		ND	144.0	ND		ND	6.6	ND	ND
APR	1	0.536	106.0	ND		ND	145.0	ND		ND	6.4	ND	ND
MAY	1	0.442	174.0	3.6		1.591	179.0	13.5		5.967	8.6	0.3	0.133
JUN	1	0.534	180.0	7.7		4.112	271.0	10.8		5.767	8.4	0.5	0.288
JUL	1	0.443	105.0	5.6		2.481	141.0	17.3		7.664	8.7	0.8	0.354
AUG	1	0.543	123.0	5.1		2.769	123.0	8.0		4.344	7.4	0.6	0.299
SEP	1	0.526	121.0	1.5		0.789	124.0	9.3		4.892	8.2	0.2	0.084
OCT	1	0.454	237.0	3.3		1.498	252.0	4.5		2.043	10.8	0.3	0.136
NOV	1	0.532	128.0	ND		ND	98.0	ND		ND	7.2	ND	ND
DEC	 	0.641	132.0 	ND		ND	115.0 	ND		ND	7.7	ND	ND
AVERA	GE:	0.490	1 144.0	4.5		2 207	   159.0	10.6		5.113	8.0	0.4	0.314
	VATION		1 12	6		2.207	1 12	6		7.113	1 12	6	0.21
	DANCES		i	-			i "				''	0	
NO OF	SAMPL	ES	24	6			24	6			24	6	

COMPLIANCE :

CRITERIA :

NOTE :

BOD - YES SS - YES

BOD - 30 mg/l

SS - 40 mg/l

\* - EXCEEDS EFFLUENT CRITERIA

TP - YES

TP - NONE

ND - NO DATA

ANTICIPATED

REMEDIAL MEASURES

START DATE END DATE

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

COMPLIANCE

MUNICIPALITY : ARRAN

REGION

: SOUTHWEST

PLANT : TARA LAGOON

DISTRICT

: OWEN SOUND

WORKS NUMBER: 110003237

TREATMENT : CONVENTIONAL LAGOON SEASONAL WATERCOURSE

OPERATING AUTHORITY : MINISTRY

: SAUBLE RIVER

PHOSPHORUS REMOVAL - CONTINUOUS

MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE HURON

DESIGN CAPACITY : 0.65 1000 m3

POPULATION SERVED: 590

IJC DESIGNATION : INDIRECT

1987	AVG DAY	1	5 DA	Y BOD		1	SUSPEN	DED SOLI	DS	1 1	TOTAL PHO	SPHORUS
	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	   0.180	154.0	ND			1 193.0	ND			15.3	ND	
FEB	0.172	187.0	ND			159.0	ND			11.2	ND	
MAR	0.236	120.0	ND			240.0	ND			6.3	ND	
APR	0.194	124.0	ND			145.0	ND			9.0	ND	
MAY	0.176	121.0	10.0			77.0	32.4			7.2	0.5	
JUN	0.177	257.0	ND			341.0	ND			13.2	ND	
JUL	0.183	76.0	ND			88.0	ND			7.0	ND	
AUG	0.200	125.0	ND			93.0	ND			9.1	ND	
SEP	0.220	139.0	ND			131.0	ND			8.2	ND	
OCT	0.250	116.0	ND			123.0	ND			5.1	ND	
NOV	0.258	121.0	1.8			110.0	17.1			4.9	0.6	
DEC	0.265 	144.0	ND			131.0 	ND			9.1 	ND	
AVERA	GE: 0.209	140.0	5.9		1.112	153.0	24.8		5.057	8.8	0.5	0.118
	VATIONS:12 DANCES	12 	2			12 	2			12 	2	
NO OF	SAMPLES	12	7			1 12	7			12	7	

COMPLIANCE :

CRITERIA :

NOTE :

BOD - YES

TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - YES

\* - EXCEEDS EFFLUENT CRITERIA

TP - YES

BOD - 30 mg/l TOTAL PHOSPHOR
SS - 40 mg/l \* - EXCEEDS
TP - 1.0 mg/l ND - NO DATA

ANTICIPATED

REMEDIAL MEASURES

START DATE END DATE

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

COMPLIANCE

NO ACTION

MUNICIPALITY : AYLMER

REGION

: SOUTHWEST

PLANT

: AYLMER LAGOON

SUMMER STORAGE

DISTRICT

: LONDON SOUTH

WORKS NUMBER: 110000891

OPERATING AUTHORITY : MINISTRY

TREATMENT

: AERATED CELL PLUS LAGOON

WATERCOURSE

: CATFISH CREEK : GREAT LAKES

PHOSPHORUS REMOVAL - CONTINUOUS

MAJOR BASIN MINOR BASIN

: LAKE ERIE

DESIGN CAPACITY :

5.23 1000 m3

IJC DESIGNATION

: INDIRECT

POPULATION SERVED :

5300

| 1987 | AVG DAY | 5 DAY BOD SUSPENDED SOLIDS TOTAL PHOSPHORUS

		FLOW 00 m3/d)	INF  (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	INF  (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	INF  (mg/L)	EFF (mg/L)	LOAD (kg/d)
	i					1 4 1	1			(13, 4)	1 (11/9/2)	(119/11)	(kg/u)
JAN	i	3.365	131.0	6.1			119.0	7.6			1 6.2	2.0 *	
FEB	1	3.094	194.0	5.3			166.0	5.8			115.4	1.3 *	
MAR	1	3.813	210.0	17.7			126.0	18.8			111.4	1.7 *	
APR	1	5.216	85.0	29.8			99.0	48.8			8.0	1.6 *	
MAY	1	3.345	125.0	ND			124.0	ND			7.5	ND	
JUN	1	2.958	213.0	ND			167.0	ND			7.2	ND	
JUL	1	2.753	142.0	ND			127.0	ND			19.0	ND	
AUG	1	3.136	248.0	ND			123.0	ND			11.7	ND	
SEP	1	3.015	129.0	ND			119.0	ND			9.4	ND	
OCT	1	3.106	238.0	ND			174.0	ND			112.1	ND	
NOV	1	3.278	121.0	ND			128.0	ND			6.3	ND	
DEC		4.839	100.0 	11.4			74.0	29.6			5.8	1.2 *	
AVER	AGE:	3.493	161.0	14.1		63.003	129.0	22.1		102.596	110.0	1.5 *	6.245
OBSE	RVATI	ONS:12	12	5			12	5			1 12	5	
EXCE	EDANC	ES	1				ĺ				i	5	
NO O	F SAM	PLES	19	13	D.		16	13			1 18	14	

COMPLIANCE :

CRITERIA :

NOTE :

BOD - YES SS - YES TP - NO

BOD - 30 mg/l

SS - 40 mg/l

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

TP - 1.0 mg/l

\* - EXCEEDS EFFLUENT CRITERIA ND - NO DATA

REMEDIAL MEASURES

START DATE END DATE

ANTICIPATED COMPLIANCE

PROCESS CONTROL IMPROVEMENTS UDERWAY

87/12/01 88/07/31 88/04/30

EXISTING EQUIPMENT/OPERATION IS BEING MODIFIED

88/02/28

88/07/31

88/04/30

MUNICIPALITY : BELMONT

REGION

: SOUTHWEST

PLANT : BELMONT LAGOON

DISTRICT

: LONDON SOUTH

WORKS NUMBER : 110002032

WATERCOURSE

OPERATING AUTHORITY : MINISTRY : KETTLE CREEK

TREATMENT : CONVENTIONAL LAGOON SEASONAL PHOSPHORUS REMOVAL - CONTINUOUS

MAJOR BASIN

: GREAT LAKES

MINOR BASIN

: LAKE ERIE

DESIGN CAPACITY :

0.56 1000 m3

IJC DESIGNATION : INDIRECT

POPULATION SERVED: 1302

FOFUL	T	4 SERVED	. 130								-		
1987	A\	/G DAY	1	5 DA	Y BOD			SUSPEN	DED SOLI	DS		TOTAL PHO	SPHORUS
	F	LOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(100	00 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	l	0.320	1 164.0	ND			333.0	ND			9.3	ND	
FEB	1	0.260	65.0	ND			49.0	ND			5.5	ND	
MAR	1	0.390	46.0	ND			70.0	ND			4.0	ND	
APR	1	0.440	75.0	13.6			110.0	44.3			6.4	1.2 *	
MAY	1	0.280	177.0	ND			141.0	ND			9.4	ND	
JUN	1	0.290	76.0	ND			70.0	ND			5.0	ND	
JUL	1	0.270	57.0	ND			90.0	ND			6.0	ND	
AUG	1	0.290	67.0	ND			94.0	ND			5.6	ND	
SEP	1	0.290	117.0	ND			106.0	ND			7.5	ND	
OCT	1	0.290	75.0	5.5			84.0	6.6			5.7	0.6	
NOV	1	0.360	62.0	ND			66.0	ND			4.6	ND	
DEC	1	0.480	49.0 	ND			45.0	ND			3.9	ND	
41/504			<del> </del>				İ				i i	Transaction 1	
AVERA		0.330	86.0	9.6		3.789	• 0 0000000000	25.5		10.703		0.9	0.347
		NS:12	12	2			12	2			12	2	
EXCEE			1				l				1	1	
NO OF	SAMP	LES	26	13			26	13			26	13	

COMPLIANCE :

CRITERIA :

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - YES SS - 40 mg/l \* - EXCEEDS EFFLUENT CRITERIA TP - NO TP - 1.0 mg/l

BOD - 30 mg/l

ND - NO DATA

ANTICIPATED

REMEDIAL MEASURES

BOD - YES

START DATE END DATE

COMPLIANCE

PHOSPHORUS REMOVAL OPERATION UNDER REVIEW

MUNICIPALITY : BLANDFORD-BLENHEIM

PLANT : PLATTSVILLE LAGOON

DISTRICT

: SOUTHWEST : LONDON NORTH

WORKS NUMBER : 110003022

TREATMENT : AERATED CELL PLUS LAGOON

OPERATING AUTHORITY : MINISTRY WATERCOURSE

SEASONAL DISCHARGE

MAJOR BASIN

REGION

: NITH RIVER : GREAT LAKES

PHOSPHORUS REMOVAL - BATCH

MINOR BASIN

: LAKE ERIE

DESIGN CAPACITY : 0.59 1000 m3

IJC DESIGNATION : INDIRECT

POPULATION SERVED : 555

1987	AVG DAY	1	5 DA	Y BOD		1	SUSPEN	DED SOLI	DS	1	TOTAL PHO	SPHORUS
	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d
JAN	0.291	152.0	ND			451.0	ND			   6.0	ND	
FEB	0.338	145.0	ND			266.0	ND			6.2	ND.	
MAR	0.342	86.0	ND			109.0	ND			4.1	ND	
APR	0.546	114.0	7.4			207.0	43.2			4.3	0.2	
MAY	0.351	35.0	8.8			84.0	29.0			2.1	0.2	
JUN	0.427	69.0	ND			124.0	ND			4.2	ND	
JUL	0.348	104.0	ND			234.0	ND			4.9	ND	
AUG	0.424	33.0	ND			94.0	ND			2.2	ND	
SEP	0.295	115.0	ND			179.0	ND			2.4	ND	
OCT	0.358	60.0	ND			159.0	ND			2.6	ND	
NOV	0.315	160.0	5.1			225.0	22.1			3.7	0.2	
DEC	0.380	ND	ND			ND	ND			ND	ND	
	1	1								1		
AVERA	GE: 0.368	98.0	7.1		2.912	1 194.0	31.4		13.576	3.9	0.2	0.08
OBSER	VATIONS:12	11	3			11	3			11	3	
EXCEE	DANCES	1				1				1		
NO OF	SAMPLES	11	9			11	8			11	9	

COMPLIANCE :

CRITERIA :

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

BOD - YES TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

BOD - 30 mg/l 10162 SS - 40 mg/l \* - EXCEEDS 1 0 mg/l ND - NO DATA SS - YES \* - EXCEEDS EFFLUENT CRITERIA

TP - YES

ANTICIPATED

REMEDIAL MEASURES START DATE END DATE COMPLIANCE

ENGINEERING STUDY PHASE 88/03/01 89/09/30

MUNICIPALITY : BLENHEIM : SOUTHWEST REGION DISTRICT : WINDSOR PLANT : BLENHEIM LAGOON WORKS NUMBER : 120001666 OPERATING AUTHORITY : MINISTRY

TREATMENT : CONVENTIONAL LAGOON SEASONAL WATERCOURSE : CAMERON DR - MCGREGOR CK

> PHOSPHORUS REMOVAL - BATCH MAJOR BASIN : GREAT LAKES MINOR BASIN : LAKE ERIE

IJC DESIGNATION : INDIRECT DESIGN CAPACITY : 1.95 1000 m3

POPULATION SERVED : 4175

1987	AVG DAY	1	5 DA	Y BOD		1	SUSPEN	DED SOLI	DS	1 1	TOTAL PHO	SPHORUS
	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	1.590	162.0	ND			156.0	ND			8.9	ND	
FEB	1.310	155.0	ND			201.0	ND			9.5	ND	
MAR	1.480	101.0	15.7			159.0	51.4			7.3	0.6	
APR	1.640	134.0	19.3			169.0	28.6			7.2	0.5	
MAY	1.340	159.0	ND			230.0	ND			9.8	ND	
JUN	1.410	122.0	ND			186.0	ND			1 7.4	ND	
JUL	1.351	394.0	ND			264.0	ND			9.7	ND	
AUG	1.628	145.0	ND			185.0	ND			8.9	ND	
SEP	1.685	148.0	ND			142.0	ND			6.7	ND	
OCT	1.503	181.0	ND			204.0	ND			8.4	ND	
NOV	1.428	136.0	15.4			119.0	65.1			8.4	0.7	
DEC	1.455	1 108.0	ND			118.0	ND			6.2	ND	
	<u>'</u>	<del> </del>			22 323	1						
AVERA		162.0	16.8		25.626	178.0	48.4 *		71.980		0.6	0.883
	VATIONS:12 DANCES	12 	3			12	3			12 	3	
NO OF	SAMPLES	13	14			13	14			13	14	

COMPLIANCE : CRITERIA : NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS BOD - YES BOD - 30 mg/l SS - 40 mg/l TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - NO \* - EXCEEDS EFFLUENT CRITERIA

TP - YES TP - 1.0 mg/l ND - NO DATA

ANTICIPATED REMEDIAL MEASURES START DATE END DATE COMPLIANCE

ENGINEERING STUDY PHASE 88/03/01 89/09/30

MUNICIPALITY : BLYTH DISTRICT : SOUTHWEST PLANT : BLYTH WPCP : OWEN SOUND WORKS NUMBER: 110002247

OPERATING AUTHORITY : MINISTRY TREATMENT : EXTENDED AERATION WATERCOURSE : BLYTH CREEK

PHOSPHORUS REMOVAL - CONTINUOUS MAJOR BASIN : GREAT LAKES MINOR BASIN : LAKE HURON EFFLUENT POLISHING

DESIGN CAPACITY : 0.73 1000 m3 IJC DESIGNATION : INDIRECT

POPULATION SERVED: 890

1987	AVG DAY	1	5 DA	Y BOD		1	SUSPEN	DED SOLI	DS	1 1	TOTAL PHO	SPHORUS
	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	0.302	127.0	4.3		1.299	1 151.0	5.0		1.510	   8.0	0.4	0.124
FEB	0.312	142.0	12.8		3.994	162.0	7.4		2.309	9.4	0.2	0.072
MAR	0.375	130.0	5.1		1.912	186.0	2.9		1.087	7.2	0.3	0.094
APR	0.335	245.0	8.6		2.881	379.0	2.9		0.972	16.3	0.7	0.22
MAY	0.300	221.0	2.3		0.690	297.0	1.1		0.330	111.3	0.4	0.10
JUN	0.315	151.0	1.4		0.441	164.0	0.5		0.158	8.5	0.4	0.11
JUL	0.313	154.0	2.3		0.720	154.0	0.7		0.219	7.8	0.5	0.14
AUG	0.329	121.0	1.4		0.461	115.0	0.7		0.230	7.6	0.2	0.06
SEP	0.337	140.0	1.2		0.404	113.0	0.3		0.101	6.8	0.2	0.08
OCT	0.338	696.0	1.3		0.439	1668.0	2.6		0.879	20.7	0.1	0.03
NOV	0.365	101.0	1.2		0.438	121.0	0.8		0.292	•	0.2	0.06
DEC	0.409 	102.0 	2.3		0.941	120.0 	1.7		0.695	6.5 	0.2	0.07
AVERA	GE: 0.336	194.0	3.7		1.218	302.0	2.2		0.732	1 9.7	0.3	0.10
	VATIONS:12 DANCES	12 	12			12 	12			12 	12	22.12
NO OF	SAMPLES	23	29			23	29			23	29	

COMPLIANCE : CRITERIA : NOTE :

> BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS BOD - YES BOD - 25 mg/l

TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - YES SS - 25 mg/l \* - EXCEEDS EFFLUENT CRITERIA

TP - YES TP - 1.0 mg/l ND - NO DATA

ANTICIPATED REMEDIAL MEASURES START DATE END DATE COMPLIANCE

MUNICIPALITY: BRUSSELS : SOUTHWEST
PLANT: BRUSSELS WPCP
DISTRICT: OWEN SOUND
WORKS NUMBER: 110002354
PLANT: GREGION: SOUTHWEST
OPERATING AUTHORITY: MINISTRY

TREATMENT : EXTENDED AERATION WATERCOURSE : MAITLAND RIVER

PHOSPHORUS REMOVAL-CONTINUOUS MAJOR BASIN : GREAT LAKES
EFFLUENT POLISHING MINOR BASIN : LAKE HURON
( : 0.88 1000 m3 IJC DESIGNATION : INDIRECT

DESIGN CAPACITY : 0.88 1000 m3

POPULATION SERVED: 1010

AVG DAY	!				•						
	l	5 DA	Y BOD		İ	SUSPEN	DED SOLI	TOTAL PHOSPHORUS			
FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
0.349	   134.0	3.9		1.361	l   173.0	3.3		1.152	   6.0	0.2	0.066
0.316	166.0	4.2		1.327	227.0	4.2		1.327	8.5	0.3	0.092
0.479	216.0	6.7		3.209	458.0	7.0		3.353	15.8	0.3	0.148
0.433	133.0	2.1		0.909	209.0	2.0		0.866	8.9	0.2	0.087
0.311	249.0	1.0		0.311	419.0	1.5		0.467	16.9	0.3	0.084
0.335	302.0	0.9		0.302	418.0	0.7		0.234	20.3	0.4	0.117
0.322	220.0	1.4		0.451	390.0	1.0		0.322	14.7	0.2	0.061
0.292	227.0	1.2		0.350	304.0	1.2		0.350	11.2	0.2	0.047
0.274	129.0	1.6		0.438	212.0	0.8		0.219	9.2	0.1	0.033
0.293	143.0	1.7		0.498	320.0	0.9		0.264	16.1	0.1	0.032
0.396	125.0	1.9		0.752	116.0	0.9		0.356	7.1	0.3	0.103
0.379 	151.0 	1.6		0.606	236.0 	0.2		0.076	12.0 	0.2	0.068
GE: 0.348	183.0	2.4	-	0.876	290.0	2.0		0.749	112.2	0.2	0.078
ATIONS: 12 DANCES	12 	12			12 	12			12	12	
SAMPLES	26	32			26	27			24	27	
	0.349 0.316 0.479 0.433 0.311 0.335 0.322 0.292 0.274 0.293 0.396 0.379 E: 0.348 ATIONS:12	0.316   166.0 0.479   216.0 0.433   133.0 0.311   249.0 0.335   302.0 0.322   220.0 0.292   227.0 0.274   129.0 0.293   143.0 0.396   125.0 0.379   151.0  E: 0.348   183.0 ATIONS:12   12 ANCES	0.349   134.0 3.9 0.316   166.0 4.2 0.479   216.0 6.7 0.433   133.0 2.1 0.311   249.0 1.0 0.335   302.0 0.9 0.322   220.0 1.4 0.292   227.0 1.2 0.274   129.0 1.6 0.293   143.0 1.7 0.396   125.0 1.9 0.379   151.0 1.6 E: 0.348   183.0 2.4 ATIONS:12   12 12	0.349   134.0	0.349   134.0	0.349   134.0	0.349   134.0   3.9   1.361   173.0   3.3   0.316   166.0   4.2   1.327   227.0   4.2   0.479   216.0   6.7   3.209   458.0   7.0   0.433   133.0   2.1   0.909   209.0   2.0   0.311   249.0   1.0   0.311   419.0   1.5   0.335   302.0   0.9   0.302   418.0   0.7   0.322   220.0   1.4   0.451   390.0   1.0   0.292   227.0   1.2   0.350   304.0   1.2   0.274   129.0   1.6   0.438   212.0   0.8   0.293   143.0   1.7   0.498   320.0   0.9   0.396   125.0   1.9   0.752   116.0   0.9   0.379   151.0   1.6   0.606   236.0   0.2     E:   0.348   183.0   2.4   0.876   290.0   2.0   ATIONS:12   12   12   12   ANCES	0.349   134.0   3.9   1.361   173.0   3.3   0.316   166.0   4.2   1.327   227.0   4.2   0.479   216.0   6.7   3.209   458.0   7.0   0.433   133.0   2.1   0.909   209.0   2.0   0.311   249.0   1.0   0.311   419.0   1.5   0.335   302.0   0.9   0.302   418.0   0.7   0.322   220.0   1.4   0.451   390.0   1.0   0.292   227.0   1.2   0.350   304.0   1.2   0.274   129.0   1.6   0.438   212.0   0.8   0.293   143.0   1.7   0.498   320.0   0.9   0.396   125.0   1.9   0.752   116.0   0.9   0.379   151.0   1.6   0.606   236.0   0.2    E: 0.348   183.0   2.4   0.876   290.0   2.0   ATIONS:12   12   12   12   12   12   12   12	0.349   134.0	0.349   134.0   3.9   1.361   173.0   3.3   1.152   6.0   0.316   166.0   4.2   1.327   227.0   4.2   1.327   8.5   0.479   216.0   6.7   3.209   458.0   7.0   3.353   15.8   0.433   133.0   2.1   0.909   209.0   2.0   0.866   8.9   0.311   249.0   1.0   0.311   419.0   1.5   0.467   16.9   0.335   302.0   0.9   0.302   418.0   0.7   0.234   20.3   0.322   220.0   1.4   0.451   390.0   1.0   0.322   14.7   0.292   227.0   1.2   0.350   304.0   1.2   0.350   11.2   0.274   129.0   1.6   0.438   212.0   0.8   0.219   9.2   0.293   143.0   1.7   0.498   320.0   0.9   0.264   16.1   0.396   125.0   1.9   0.752   116.0   0.9   0.356   7.1   0.379   151.0   1.6   0.606   236.0   0.2   0.076   12.0    EE: 0.348   183.0   2.4   0.876   290.0   2.0   0.749   12.2    ANCES	0.349   134.0   3.9   1.361   173.0   3.3   1.152   6.0   0.2   0.316   166.0   4.2   1.327   227.0   4.2   1.327   8.5   0.3   0.479   216.0   6.7   3.209   458.0   7.0   3.353   15.8   0.3   0.433   133.0   2.1   0.909   209.0   2.0   0.866   8.9   0.2   0.311   249.0   1.0   0.311   419.0   1.5   0.467   16.9   0.3   0.335   302.0   0.9   0.302   418.0   0.7   0.234   20.3   0.4   0.322   220.0   1.4   0.451   390.0   1.0   0.322   14.7   0.2   0.292   227.0   1.2   0.350   304.0   1.2   0.350   11.2   0.2   0.274   129.0   1.6   0.438   212.0   0.8   0.219   9.2   0.1   0.293   143.0   1.7   0.498   320.0   0.9   0.264   16.1   0.1   0.396   125.0   1.9   0.752   116.0   0.9   0.356   7.1   0.3   0.379   151.0   1.6   0.606   236.0   0.2   0.749   12.2   0.2    ATIONS:12   12   12   12   12   12   12   12

COMPLIANCE : CRITERIA : NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
BOD - YES BOD - 25 mg/l TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - YES SS - 25 mg/l \* - EXCEEDS EFFLUENT CRITERIA

TP - YES TP - 1.0 mg/L ND - NO DATA

REMEDIAL MEASURES START DATE END DATE COMPLIANCE

MUNICIPALITY : CHATHAM
PLANT : CHATHAM WPCP

WORKS NUMBER : 110000098

TREATMENT : CONVENTIONAL ACTIVATED SLUDGE

PHOSPHORUS REMOVAL-CONTINUOUS
EFFLUENT POLISHING

DESIGN CAPACITY : 35.91 1000 m3

POPULATION SERVED : 41000

REGION : SOUTHWEST
DISTRICT : WINDSOR
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : THAMES RIVER

MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ERIE

IJC DESIGNATION : INDIRECT

1987	A	VG DAY	I	5 DA	Y BOD		1	SUSPEN	DED SOLI	DS	i :	TOTAL PHO	SPHORUS
	1	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d	
JAN	i	23.750	1 129.0	3.2		76.000	   174.0	14.6		346.750	   8.3	0.3	7.12
FEB	1	23.200	190.0	3.6		83.520	208.0	16.4		380.480	18.8	0.5	11.60
MAR	1	21.080	163.0	4.9		103.292	214.0	16.2		341.496	251	0.8	16.86
APR	1	25.230	140.0	5.3		133.719	178.0	29.1		734.193	1	0.7	17.66
MAY	1	21.870	156.0	4.0		87.480	278.0	25.3		553.311	CO-DARINESS A	1.0	21.87
JUN	1	22.220	138.0	5.0		111.100	246.0	27.7		615.494		1.1 *	24.44
JUL	1	21.510	209.0	6.7		144.117	260.0	23.0		494.730	7	1.7 *	36.56
AUG	1	28.610	182.0	4.9		140.189	330.0	32.1		918.381	Si perce se	1.3 *	37.19
SEP	l	34.530	133.0	4.6		158.838	374.0	49.4		1705.782	8	1.2 *	41.43
OCT	1	28.800	273.0	4.1		118.080	390.0	36.3		1045.440	The second second	1.0	28.80
NOV	l	31.320	218.0	16.1		504.252	386.0	31.2		977.184		1.1 *	34.45
DEC	 	38.180	127.0 	11.1		423.798	242.0 	12.0		458.160	-	0.9	34.36
AVERA	GE:	26.692	   172.0	6.1		173.699	273.0	26.1 *		714.283	114.9	1.0	26.03
OBSER	DBSERVATIONS:12		12	12			12	12		***************************************	1 12	12	20.03
EXCEE	XCEEDANCES		1				Date of				i	5	
O OF SAMPLES		65	65			247	229			99	97		

COMPLIANCE : CRITERIA :

BOD - YES BOD - 25 mg/l SS - NO SS - 25 mg/l

TP - NO TP - 1.0 mg/L

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

\* - EXCEEDS EFFLUENT CRITERIA

ND - NO DATA

ANTICIPATED

REMEDIAL MEASURES

START DATE END DATE

COMPLIANCE

ENGINEERING STUDY PHASE

PHOSPHORUS REMOVAL OPERATION UNDER REVIEW

RE-EXAMINING MBR CRITERIA

START DATE END DATE

COMPLIANCE

88/06/01 88/12/31

88/06/01 88/12/31

MUNICIPALITY : CHESLEY REGION : SOUTHWEST DISTRICT PLANT : CHESLEY LAGOON MUN.OP.JAN'87 : OWEN SOUND OPERATING AUTHORITY : MUNICIPAL

WORKS NUMBER : 110000105

TREATMENT : CONVENTIONAL LAGOON CONTINUOUS WATERCOURSE : NORTH SAUGEEN RIVER

PHOSPHORUS REMOVAL - CONTINUOUS

MAJOR BASIN : GREAT LAKES MINOR BASIN : LAKE HURON

DESIGN CAPACITY : 1.45 1000 m3 IJC DESIGNATION : INDIRECT

POPULATION SERVED: 1883

1987	AV	G DAY		5 DA	Y BOD		1	SUSPEN	DED SOLI	DS	1	TOTAL PHO	SPHORUS
	FLOW		INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(100	0 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
MAL	 	0.979	ND	ND		ND	I   ND	ND		ND	I   ND	ND	ND
FEB	1	1.259	ND	ND		ND	ND	ND		ND	ND	ND	ND
MAR	ı	1.087	41.0	17.7		19.240	95.0	26.7		29.023	2.7	0.6	0.65
APR	1	0.682	103.0	8.4		5.729	110.0	14.4		9.821	3.7	0.3	0.20
MAY	l	0.400	98.0	3.0		1.200	173.0	4.1		1.640	5.9	1.2 *	0.48
JUN	I	0.526	20.0	2.1		1.105	27.0	0.8		0.421	2.2	0.9	0.47
JUL	1	0.526	37.0	4.0		2.104	59.0	2.8		1.473	3.3	1.0	0.52
AUG	l	0.561	16.0	1.7		0.954	37.0	4.9		2.749	1.9	0.8	0.44
SEP	l	0.481	59.0	1.3		0.625	107.0	3.6		1.732	4.0	1.3 *	0.62
OCT	l	ND	ND	ND		ND	ND	ND		ND	ND	ND	ND
NOV	I	0.925	52.0	3.7		3.423	50.0	5.7		5.273	4.0	0.9	0.83
DEC	 	0.955	39.0 	4.8		4.584	64.0 	15.8		15.089	2.6 	8.0	0.76
AVERA	GE:	0.762	52.0	5.2		4.329	80.0	8.8		7.469	1 3.4	0.9	0.556
OBSERVATIONS:11		NS:11	9	9				9			9	9	
EXCEEDANCES		S	1				1				İ	2	
O OF	SAMP	LES	10	10			10	10			1 10	10	

COMPLIANCE : CRITERIA : NOTE :

> BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS BOD - YES BOD - 30 mg/l TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - YES SS - 40 mg/l \* - EXCEEDS EFFLUENT CRITERIA

TP - NO TP - 1.0 mg/l ND - NO DATA

ANTICIPATED REMEDIAL MEASURES START DATE END DATE COMPLIANCE

MUNICIPALITY : CLINTON
PLANT : CLINTON WPCP
WORKS NUMBER : 120000925

: CONTACT STABILIZATION

PHOSPHORUS REMOVAL-CONTINUOUS EFFLUENT FILTRATION

DESIGN CAPACITY : 1.81 1000 m3

POPULATION SERVED : 3000

TREATMENT

REGION : SOUTHWEST
DISTRICT : OWEN SOUND
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : BAYFIELD RIVER

MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE HURON
IJC DESIGNATION : INDIRECT

1987 | AVG DAY 5 DAY BOD SUSPENDED SOLIDS TOTAL PHOSPHORUS FLOW **EFF** INF LOAD INF **EFF** LOAD INF **EFF** LOAD |(1000 m3/d) |(mg/L) (mg/L) (%REM) (kg/d) (mg/L) (mg/L) (%REM) (kg/d) (mg/L) (mg/L) (kg/d) JAN 2.162 87.0 2.7 5.837 | 68.0 3.4 7.351 | 3.7 0.6 1.189 | FEB 1.763 85.0 2.2 3.879 93.0 0.9 1.587 | 4.5 0.7 1.199 3.113 57.0 MAR 2.8 8.716 | 63.0 10.2 31.753 | 3.2 0.9 2.926 APR 2.560 | 84.0 18.0 46.080 | 41.0 4.9 12.544 | 2.3 0.8 2.150 | MAY 1.298 | 130.0 11.8 15.316 | 161.0 2.1 2.726 | 7.1 0.7 0.844 JUN 1.322 | 108.0 13.6 17.979 | 217.0 3.2 4.230 | 7.0 0.6 0.806 | JUL 1.417 | 48.0 4.8 6.802 | 102.0 12.0 17.004 | 5.0 0.5 0.709 | AUG 1.377 | 134.0 0.9 1.239 | 155.0 1.2 1.652 | 9.2 1.2 \* 1.652 SEP 1.390 | 104.0 2.1 2.919 | 106.0 1.3 1.807 | 6.5 1.1 \* 1.460 | OCT 1.872 | 66.0 1.0 1.872 | 147.0 0.4 0.749 | 4.2 0.5 0.899 | NOV 2.900 22.0 1.4 4.060 | 35.0 2.0 5.800 | 1.2 0.3 0.783 | DEC | 3.800 27.0 10.6 40.280 I 28.0 7.7 29.260 | 1.5 0.7 2.584 AVERAGE: 2.081 79.0 6.0 12.915 | 101.0 4.1 9.705 | 4.6 0.7 1.433 | OBSERVATIONS: 12 12 12 12 12 | 12 12 **EXCEEDANCES** 2 NO OF SAMPLES 12 12 12 12 12 12 1

COMPLIANCE : CRITERIA : NOTE :

BOD - YES BOD - 25 mg/l
SS - YES SS - 25 mg/l
TP - NO TP - 1.0 mg/l

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

\* - EXCEEDS EFFLUENT CRITERIA

ND - NO DATA

ANTICIPATED REMEDIAL MEASURES START DATE END DATE COMPLIANCE FINAL DESIGN PHASE 86/01/01 86/12/31 UNDER CONSTRUCTION 87/01/01 COLLECTION SYSTEM DEFICIENCY UNDER STUDY 86/01/01 86/12/31 88/12/31 INFILTRATION PROBLEMS ARE BEING CORRECTED 87/01/01 87/12/31 PROCESS CONTROL IMPROVEMENTS UNDERWAY 1988 **ENVIRONMENTAL ASSESSMENT PROCESS** 1990

MUNICIPALITY : COLLINGWOOD PLANT : CRAIGLEIGH WPCP

WORKS NUMBER: 120001951

TREATMENT : EXTENDED AERATION

PHOSPHORUS REMOVAL - CONTINUOUS

EFFLUENT FILTRATION

DESIGN CAPACITY : 4.07 1000 m3

POPULATION SERVED : 3000

REGION

: SOUTHWEST

DISTRICT

: OWEN SOUND

OPERATING AUTHORITY : MUNICIPAL

WATERCOURSE

: GEORGIAN BAY

MAJOR BASIN

: GREAT LAKES : LAKE HURON

MINOR BASIN

IJC DESIGNATION : DIRECT

1987	AVG DAY	1	5 DA	Y BOD		I	SUSPEN	DED SOLI	DS	1 1	TOTAL PHO	SPHORUS
	FLOW	INF	EFF		LOAD	INF  (mg/L)	EFF (mg/L)		LOAD	INF	EFF	LOAD
	(1000 m3/d)	0 m3/d)  (mg/L)	(mg/L)	(%REM)	(kg/d)			(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	0.586	37.0	0.7		0.410	   39.0	3.0		1.758	   3.0	0.3	0.199
FEB	0.546	41.0	2.6		1.420	35.0	3.4		1.856		0.3	0.153
MAR	0.561	82.0	4.1		2.300	227.0	5.4		3.029	4.8	0.3	0.185
APR	0.559	10.0	1.4		0.783	14.0	3.3		1.845	1.1	0.5	0.257
MAY	0.383	17.0	1.0		0.383	15.0	2.8		1.072	2.1	0.5	0.176
JUN	0.417	24.0	1.2		0.500	74.0	2.3		0.959	2.7	0.4	0.150
JUL	0.572	58.0	1.9		1.087	84.0	0.7		0.400	3.8	0.3	0.183
AUG	0.640	46.0	1.2		0.768	70.0	0.5		0.320	4.0	0.3	0.198
SEP	0.526	19.0	0.7		0.368	75.0	1.0		0.526	3.3	0.2	0.110
OCT	0.577	36.0	0.1		0.058	55.0	1.7		0.981	0.5	0.2	0.110
NOV	0.635	11.0	1.2		0.762	35.0	0.3		0.191	2.1	0.2	0.121
DEC	0.834 	7.0 	4.9		4.087	45.0 	1.7		1.418	2.0	0.4	0.325
AVERA	GE: 0.570	32.0	1.8		1.077	64.0	2.2	77	1.196	1 2.9	0.3	0.181
	VATIONS:12 DANCES	12 	12			12   12	12			12	12	
NO OF	SAMPLES	1 12	12			48	47			l 69	142	

COMPLIANCE :

CRITERIA :

NOTE :

BOD - YES SS - YES

TP - YES

BOD - 25 mg/l

SS - 25 mg/l TP - 1.0 mg/l BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

\* - EXCEEDS EFFLUENT CRITERIA

ND - NO DATA

REMEDIAL MEASURES

START DATE END DATE

ANTICIPATED COMPLIANCE

: SOUTHWEST

: WINDSOR

MUNICIPALITY : DOVER REGION : MITCHELL'S BAY LAGOON

DISTRICT WORKS NUMBER : 110002087 OPERATING AUTHORITY : MINISTRY

TREATMENT : CONVENTIONAL LAGOON SEASONAL WATERCOURSE : LAKE ST. CLAIR PHOSPHORUS REMOVAL - BATCH MAJOR BASIN : GREAT LAKES

> MINOR BASIN : LAKE ERIE

IJC DESIGNATION : INDIRECT DESIGN CAPACITY : 0.50 1000 m3

1987	A	VG DAY	l	5 DA	Y BOD		i	SUSPEN	DED SOLI	TOTAL PHOSPHORUS			
	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD	
	(10	00 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	Ì	0.130	20.0	ND			1 153.0	ND			1 1.5	ND	
FEB	1	0.118	81.0	ND			107.0	ND			4.5	ND	
MAR	1	0.132	73.0	ND			109.0	ND			3.4	ND	
APR	ł	0.133	ND	ND			ND	ND			ND	ND	
MAY	1	0.133	72.0	ND			107.0	ND			ND	ND	
JUN	1	0.167	68.0	ND			76.0	ND			4.7	ND	
JUL	l	0.176	ND	ND			ND	ND			ND	ND	
AUG	l	0.160	66.0	ND			195.0	ND			1.9	ND	
SEP	1	0.135	115.0	ND			126.0	ND			6.5	ND	
OCT	1	0.097	178.0	ND			216.0	ND			8.4	ND	
NOV	1	0.102	67.0	ND			43.0	ND			4.0	ND	
DEC	1 1	0.143	ND	ND			ND	ND			ND	ND	
AVERA	GE:	0.136	82.0	0.0		0.000	   126.0	0.0		0.000	1 4.4	0.0	0.000
OBSER	OBSERVATIONS: 12		9	0			1 9	0		0.000	1 8	0.0	0.000
EXCEE	XCEEDANCES		ĺ				E .					U	
NO OF	SAM	PLES	9	0			I 10	0			1 7	0	

COMPLIANCE : CRITERIA : NOTE :

> BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS BOD - NO DISCHARGE BOD - 30 mg/l

TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS. SS - NO DISCHARGE SS - 40 mg/l \* - EXCEEDS EFFLUENT CRITERIA

TP - NO DISCHARGE TP - 1.0 mg/l ND - NO DATA

ANTICIPATED REMEDIAL MEASURES START DATE END DATE COMPLIANCE

ENGINEERING STUDY PHASE 88/03/01 89/09/30

MUNICIPALITY : DRESDEN REGION : SOUTHWEST PLANT : DRESDEN WPCP DISTRICT : SARNIA

WORKS NUMBER : 110002014 OPERATING AUTHORITY : MINISTRY

TREATMENT : EXTENDED AERATION WATERCOURSE : SYDENHAM RIVER PHOSPHORUS REMOVAL - CONTINUOUS MAJOR BASIN : GREAT LAKES

MINOR BASIN : LAKE ERIE DESIGN CAPACITY : 4.54 1000 m3 IJC DESIGNATION : INDIRECT

POPULATION SERVED : 2278

1987	AVG DAY	1	5 DA	Y BOD		Î	SUSPEN	DED SOLI	DS	į į	TOTAL PHO	SPHORUS	
	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD	
	(1000 m3/d)	(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L) (	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	1.565	106.0	6.9		10.799	   152.0	8.1		12.676	4.9	0.4	0.579	
FEB	1.333	96.0	5.3		7.065	228.0	8.0		10.664	5.2	0.2	0.227	
MAR	1.757	232.0	2.8		4.920	188.0	5.8		10.191	4.9	0.2	0.299	
APR	1.540	170.0	5.7		8.778	269.0	12.6		19.404	5.2	0.3	0.477	
MAY	1.645	177.0	4.2		6.909	235.0	9.0		14.805	4.9	0.2	0.263	
JUN	2.054	115.0	5.3		10.886	221.0	12.1		24.853	5.7	0.5	1.006	
JUL	1.406	214.0	4.4		6.186	241.0	11.9		16.731	6.7	0.3	0.464	
AUG	2.058	79.0	5.7		11.731	171.0	14.6		30.047	5.4	0.3	0.659	
SEP	3.522	75.0	6.2		21.836	119.0	19.0		66.918	4.4	0.5	1.655	
OCT	1.810	119.0	10.1		18.281	196.0	31.0		56.110	6.1	1.0	1.882	
NOV	1.855	317.0	13.4		24.857	205.0	16.7		30.978	9.0	1.2 *	2.26	
DEC	2.142 	598.0 	9.8		20.992	276.0 	16.3		34.915	5.6 	0.6	1.178	
AVERA	GE: 1.891	192.0	6.7		12.770	208.0	13.8		27.358	5.7	0.5	0.913	
OBSER	VATIONS:12	12	12			12	12			12	12		
EXCEE	DANCES	l				l				1	1		
NO OF	SAMPLES	45	45			132	132			109	40		

CRITERIA : COMPLIANCE : NOTE :

> BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS BOD - YES

BOD - 25 mg/l TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - YES SS - 25 mg/l \* - EXCEEDS EFFLUENT CRITERIA

TP - NO TP - 1.0 mg/l ND - NO DATA

ANTICIPATED REMEDIAL MEASURES START DATE END DATE COMPLIANCE

COLLECTION SYSTEM INPUT MONITORING 88/02/01

ENFORCING BY-LAWS 88/02/01

MUNICIPALITY : DUNDALK

PLANT : DUNDALK LAGOON

WORKS NUMBER : 110001471

TREATMENT : AERATED CELL PLUS LAGOON

SUMMER STORAGE

PHOSPHORUS REMOVAL - CONTINUOUS

DESIGN CAPACITY : 1.05 1000 m3

REGION

: SOUTHWEST

DISTRICT : OWEN SOUND

OPERATING AUTHORITY : MINISTRY

WATERCOURSE : FOLEY DRAIN TO GRAND R.

MAJOR BASIN

: GREAT LAKES

MINOR BASIN

: LAKE ERIE

IJC DESIGNATION : INDIRECT

POPULATION SERVED: 1287

1987	A	VG DAY	1	5 DA	Y BOD		1	SUSPEN	DED SOLI	TOTAL PHOSPHORUS			
	FLOW	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(10	00 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	ì	0.675	65.0	ND			209.0	ND			5.1	ND	
FEB	1	0.602	116.0	8.0			165.0	7.7			4.4	0.8	
MAR	1	1.212	8.0	19.2			15.0	19.7			1.1	0.7	
APR	1	1.218	ND	3.3			ND ND	4.1			ND	0.1	
MAY	1	0.612	24.0	ND			52.0	ND			2.8	ND	
JUN	1	0.672	43.0	ND			71.0	ND			4.2	ND	
JUL	1	0.588	145.0	ND			360.0	ND			10.1	ND	
AUG	1	0.579	15.0	ND			55.0	ND			2.0	ND	
SEP	I .	0.536	70.0	ND			66.0	ND			4.2	ND	
OCT	1	0.596	63.0	ND			75.0	ND			5.2	ND	
NOV	1	0.788	33.0	ND			76.0	ND			2.8	ND	
DEC	l I	1.135	18.0 	ND			14.0 	ND			1.5 	ND	
AVERA	GE:	0.768	54.0	10.2		10.702	105.0	10.5		11.168	1 3.9	0.5	0.488
OBSER EXCEE		ONS:12 ES	11 	3			11 	3			j 11	3	31.00
NO OF	SAM	PLES	11	4			11	4			1 11	4	

COMPLIANCE :

CRITERIA :

NOTE :

BOD - YES SS - YES

TP - YES

BOD - 30 mg/l

SS - 40 mg/l TP - 1.0 mg/l

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

\* - EXCEEDS EFFLUENT CRITERIA

ND - NO DATA

REMEDIAL MEASURES

START DATE END DATE

ANTICIPATED COMPLIANCE

MUNICIPALITY : DURHAM

PLANT : DURHAM MUN WPCP

WORKS NUMBER : 110000999

TREATMENT : EXTENDED AERATION

PHOSPHORUS REMOVAL - CONTINUOUS

REGION

: SOUTHWEST

DISTRICT

: OWEN SOUND

OPERATING AUTHORITY : MINISTRY

MAJOR BASIN

WATERCOURSE : SAUGEEN RIVER

: GREAT LAKES

MINOR BASIN

: LAKE HURON

IJC DESIGNATION : INDIRECT

DESIGN CAPACITY : 2.18 1000 m3

POPULATION SERVED : 2293

		T								_		
1987	AVG DAY	i	5 DA	Y BOD		İ	SUSPEN	DED SOLI	DS		TOTAL PHO	SPHORUS
	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	0.790	1 101.0	18.3		14.457	273.0	17.0		13.430	6.5	1.0	0.798
FEB	0.800	150.0	18.7		14.960	384.0	22.8		18.240	6.8	1.0	0.800
MAR	0.930	149.0	7.2		6.696	410.0	14.0		13.020	6.1	0.5	0.493
APR	1.060	116.0	2.6		2.756	372.0	3.8		4.028	5.3	0.2	0.201
MAY	0.860	138.0	1.7		1.462	920.0	5.0		4.300	10.2	0.3	0.232
JUN	0.720	117.0	1.0		0.720	393.0	2.7		1.944	7.4	0.2	0.122
JUL	0.690	62.0	1.6		1.104	273.0	3.4		2.346	5.6	1.0	0.669
AUG	0.720	109.0	1.0		0.720	338.0	3.4		2.448	8.1	0.2	0.151
SEP	0.720	134.0	1.2		- 0.864	365.0	3.9		2.808	7.6	0.2	0.122
OCT	0.730	124.0	1.5		1.095	342.0	4.3		3.139	8.3	0.2	0.146
NOV	0.810	136.0	3.2		2.592	390.0	6.0		4.860	8.4	0.3	0.251
DEC	0.880	114.0	3.2		2.816	263.0	6.8		5.984	6.8	0.3	0.264
!		l 						_				
AVERAG	E: 0.809	121.0	5.1		4.187	394.0	7.8		6.379	7.3	0.4	0.354
OBSERV EXCEED	ATIONS:12	12 	12			12	12			12 	12	
NO OF	SAMPLES	26	26			26	26			26	26	

COMPLIANCE : CRITERIA :

NOTE :

BOD - YES SS - YES

BOD - 25 mg/l

SS - 25 mg/l

TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS. \* - EXCEEDS EFFLUENT CRITERIA

TP - YES TP - 1.0 mg/l

ND - NO DATA

ANTICIPATED

REMEDIAL MEASURES

START DATE END DATE

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

COMPLIANCE

MARGINAL FAILURE-CONTINUE TO MAINTAIN AND MONITOR LEVEL OF FAILED PARAMETER

87/02/28

MUNICIPALITY : DUTTON REGION : SOUTHWEST PLANT : DUTTON LAGOON DISTRICT : LONDON SOUTH WORKS NUMBER : 110001266

OPERATING AUTHORITY : MINISTRY

TREATMENT : CONVENTIONAL LAGOON SEASONAL WATERCOURSE : BENNETT CK. TO L. ERIE

PHOSPHORUS REMOVAL - BATCH MAJOR BASIN : GREAT LAKES MINOR BASIN : LAKE ERIE

DESIGN CAPACITY : 0.31 1000 m3 IJC DESIGNATION : INDIRECT

POPULATION SERVED : 809

1987	A	VG DAY	I	5 DA	Y BOD		1	SUSPEN	DED SOLI	DS	1 1	TOTAL PHO	SPHORUS
	1	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(10	00 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d
JAN		0.702	213.0	ND			l l 196.0	ND			111.0	ND	
FEB	ĺ	0.432	ND	ND			I ND	ND			I ND	ND	
MAR	i	0.448	230.0	ND			236.0	ND			110.8	ND	
APR	1	0.442	166.0	17.0			161.0	47.2			7.5	0.5	
MAY		0.438	159.0	38.2			132.0	87.6			8.5	9.5 *	
JUN	1	0.325	206.0	ND			205.0	ND			8.9	ND	
JUL	1	0.345	142.0	ND			129.0	ND			7.8	ND	
AUG	1	0.419	187.0	ND			116.0	ND			8.9	ND	
SEP	1	0.331	198.0	ND			174.0	ND			9.3	ND	
OCT	1	0.343	ND	8.4			ND	11.5			ND	0.4	
NOV	1	0.367	121.0	ND			116.0	ND			7.7	ND	
DEC	1	0.425	117.0	ND			77.0	ND			6.6	ND	
	<u> </u>		<u> </u>				<u> </u>				1		
AVERA	GE:	0.418	1 174.0	21.2		9.042	l l 154.0	48.8 *		21.059	8.7	3.4 *	1.489
OBSER	VATI	ONS:12	j 10	3		00000000000	1 10	3		2	1 10	3	1.40
EXCEE	DANC	ES	1				i				"	1	
NO OF	SAM	PLES	1 10	9			1 10	9			1 10	9	
			i				i	5				<b>37</b> 3	

COMPLIANCE : CRITERIA : NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

BOD - YES BOD - 30 mg/l TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - NO SS - 40 mg/l

\* - EXCEEDS EFFLUENT CRITERIA

TP - NO TP - 1.0 mg/l ND - NO DATA

ANTICIPATED REMEDIAL MEASURES COMPLIANCE START DATE END DATE

ENVIRONMENTAL ASSESSMENT PROCESS 86/04/01

MUNICIPALITY : EAST WILLIAMS

WORKS NUMBER : 110002050

PLANT : AILSA CRAIG WPCP

TREATMENT : EXTENDED AERATION

PHOSPHORUS REMOVAL - CONTINUOUS

REGION

: SOUTHWEST : LONDON NORTH

DISTRICT OPERATING AUTHORITY : MINISTRY

WATERCOURSE

: AUSABLE RIVER

MAJOR BASIN

: GREAT LAKES

MINOR BASIN

: LAKE HURON

DESIGN CAPACITY : 0.60 1000 m3

POPULATION SERVED : 843

IJC DESIGNATION : INDIRECT

1987	AVG DAY	1	5 DA	Y BOD		1	SUSPEN	DED SOLI	DS	1 7	TOTAL PHO	SPHORUS
	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	0.390	1 112.0	6.9		2.691	1 172.0	17.5		6.825	   7.1	0.7	0.277
FEB	0.320	136.0	7.4		2.368	224.0	27.1		8.672	8.1	1.0	0.333
MAR	0.390	84.0	7.1		2.769	119.0	24.6		9.594	7.8	0.7	0.265
APR	0.390	108.0	8.8		3.432	133.0	11.5		4.485	5.8	0.6	0.246
MAY	0.280	152.0	6.5		1.820	241.0	12.2		3.416	8.8	1.0	0.269
JUN	0.250	150.0	4.4		1.100	242.0	15.2		3.800	9.4	1.1 *	0.285
JUL	0.240	111.0	2.5		0.600	193.0	7.9		1.896	8.0	0.6	0.137
AUG	0.250	114.0	2.1		0.525	142.0	8.6		2.150	7.1	0.5	0.130
SEP	0.270	131.0	2.0		0.540	163.0	5.2		1.404	7.9	0.7	0.181
OCT	0.350	167.0	2.5		0.875	216.0	6.4		2.240	8.5	0.4	0.133
NOV	0.400	151.0	6.6		2.640	178.0	14.1		5.640	7.2	0.9	0.348
DEC	0.480 	87.0 	7.2		3.456	103.0 	13.2		6.336	5.3 	0.8	0.394
AVERA	GE: 0.334	1 125.0	5.3		1.901	177.0	13.6		4.705	7.6	0.7	0.250
	VATIONS:12 DANCES	12	12			12 	12			12 	12 1	11.00
NO OF	SAMPLES	24	24			1 24	24			1 24	24	

COMPLIANCE : CRITERIA :

NOTE :

BOD - YES BOD - 25 mg/l SS - YES SS - 25 mg/l

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS. \* - EXCEEDS EFFLUENT CRITERIA

TP - 1.0 mg/l ND - NO DATA

ANTICIPATED

REMEDIAL MEASURES

TP - NO

START DATE END DATE

COMPLIANCE

EXISTING EQUIPMENT/OPERATION IS BEING MODIFIED

88/04/30

88/08/31

89/01/31

MUNICIPALITY : EAST ZORRA-TAVISTOCK REGION : SOUTHWEST : TAVISTOCK LAGOON PLANT DISTRICT : LONDON NORTH

WORKS NUMBER : 110000720 OPERATING AUTHORITY : MINISTRY

TREATMENT : CONVENTIONAL LAGOON SEASONAL WATERCOURSE : TRIBUTARY TO THAMES R.

PHOSPHORUS REMOVAL - BATCH MAJOR BASIN : GREAT LAKES MINOR BASIN : LAKE ERIE 0.77 1000 m3

DESIGN CAPACITY : IJC DESIGNATION : INDIRECT

POPULATION SERVED : 1952

1987	A	VG DAY	I	5 DA	Y BOD		Î	SUSPEN	DED SOLI	DS	į ·	TOTAL PHO	SPHORUS
	1	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(10	00 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	 	0.830	1 101.0	ND			1 106.0	ND			15.9	ND	
FEB	i	0.720	990.0				779.0	ND			71.9	ND	
MAR	İ	1.120	227.0	ND			189.0	ND			117.2	ND	
APR	I	1.090	66.0	30.8			63.0	51.3			4.7	1.3 *	
MAY	l	0.740	532.0	ND			340.0	ND			13.7	ND	
JUN		0.760	433.0	ND			153.0	ND			14.7	ND	
JUL	I	0.920	247.0	ND			106.0	ND			9.6	ND	
AUG	l	0.790	150.0	ND			83.0	ND			7.5	ND	
SEP	I	0.740	341.0				122.0	ND			3.7	ND	
OCT		0.800	468.0				226.0	ND			12.5	ND	
NOV	ļ	0.950	362.0				140.0	ND			12.9	ND	
DEC	! !	1.140	53.0 	ND			44.0 	ND			3.4	ND	
AVERA	GE:	0.883	331.0	30.8 *		33.572	1 196.0	51.3 *		55.917	114.8	1.3 *	1.428
OBSERV	VATIO	ONS:12	j 12	1			1 12	1			1 12	1	1.420
EXCEE	DANCE	S	I								1 ~	1	
NO OF	SAM	PLES	12	1			12	1			1 12	1	

COMPLIANCE : CRITERIA : NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

BOD - NO BOD - 30 mg/l TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - NO SS - 40 mg/l \* - EXCEEDS EFFLUENT CRITERIA

TP - NO TP - 1.0 mg/l ND - NO DATA

ANTICIPATED REMEDIAL MEASURES START DATE END DATE COMPLIANCE

UNDER CONSTRUCTION 88/04/30 88/04/30

MUNICIPALITY : ENNISKILLEN PLANT : OIL CITY LAGOON

WORKS NUMBER: 110001738

TREATMENT : CONVENTIONAL LAGOON SEASONAL PHOSPHORUS REMOVAL - BATCH

REGION

: SOUTHWEST

DISTRICT : SARNIA OPERATING AUTHORITY : MINISTRY

WATERCOURSE : BLACK CREEK

MAJOR BASIN

: GREAT LAKES

MINOR BASIN

: LAKE ERIE

POPULATION SERVED : 212

DESIGN CAPACITY : 0.18 1000 m3

IJC DESIGNATION : INDIRECT

	1										
AVG DAY	i	5 DA	Y BOD		ì	SUSPEN	DED SOLI	DS	i .	TOTAL PHO	SPHORUS
FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
(1000 m3/	d)  (mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
l I 0.07	   166.0	ND			1 108.0	ND			180	ND	
N se es					• 0.00000000000000000000000000000000000	0.000			1		
0.06	185.0	ND			168.0	ND				ND	
0.07	124.0	4.8			83.0	14.6			6.0	0.2	
0.06	130.0	21.5			67.0	92.7			8.0	1.0	
0.050	129.0	ND			74.0	ND			9.4	ND	
0.06	1 110.0	ND			70.0	ND			6.7	ND	
0.05	359.0	ND			331.0	ND			12.6	ND	
0.06	121.0	ND			60.0	ND			7.3	ND	
0.07	279.0	ND			283.0	ND			11.4	ND	
0.06	156.0	ND			120.0	ND			9.4	ND	
0.070	1 107.0	ND			68.0	ND			6.6	ND	
•	+				1				<u> </u>		
	168.0	13.2		0.825	128.0	53.7 *		3.329	8.7	0.6	0.035
	12 	2			12 	2			12 	2	
SAMPLES	1 24	2			24	2			24	2	
	FLOW   (1000 m3/c)   0.070   0.060   0.050   0.060   0.070   0.060	FLOW   INF   (1000 m3/d)   (mg/L)	FLOW   INF EFF   (1000 m3/d)   (mg/L) (mg/L) (mg/L)	FLOW   INF EFF   (1000 m3/d)   (mg/L) (mg/L) (%REM)	FLOW   INF	FLOW   INF	FLOW	FLOW   INF	FLOW	FLOW	FLOM

COMPLIANCE : CRITERIA :

NOTE :

BOD - YES BOD - 30 mg/l SS - NO SS - 40 mg/l TP - YES TP - 1.0 mg/l

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS. \* - EXCEEDS EFFLUENT CRITERIA

ND - NO DATA

ANTICIPATED

REMEDIAL MEASURES

START DATE END DATE

COMPLIANCE

UNDER DISCUSSION WITH MUNICIPALITY

MUNICIPALITY : ESSEX

DESIGN CAPACITY :

: ESSEX LAGOON N.E.

PLANT

WORKS NUMBER : 110000203

TREATMENT : CONVENTIONAL LAGOON SEASONAL

PHOSPHORUS REMOVAL-CONTINUOUS

2.88 1000 m3

REGION

: SOUTHWEST

DISTRICT

: WINDSOR

OPERATING AUTHORITY : MINISTRY

: PUCE RIVER DRAIN

WATERCOURSE MAJOR BASIN

: GREAT LAKES

: LAKE ERIE

MINOR BASIN

IJC DESIGNATION

: INDIRECT

POPULATION SERVED :

4003

1987 | AVG DAY 5 DAY BOD SUSPENDED SOLIDS TOTAL PHOSPHORUS FLOW INF EFF LOAD INF **EFF** LOAD INF FFF LOAD |(1000 m3/d) |(mg/L) (mg/L) (%REM) (kg/d) (mg/L) (mg/L) (%REM) (kg/d) (mg/L) (mg/L) (kg/d) JAN 1.952 38.0 ND 85.0 ND 1 2.0 ND FEB 2.005 | 25.0 ND 1 112.0 ND 1 2.0 ND MAR 2.016 | 37.0 ND 76.0 1 2.0 ND NO APR 2.116 | 111.0 ND | 131.0 ND 1 4.7 ND MAY 1.381 | 73.0 ND 62.0 ND 2.6 ND JUN 1.686 82.0 ND | 169.0 ND 1 4.9 ND JUL 1.488 71.0 ND 92.0 ND 5.0 ND AUG 2.365 71.0 ND 164.0 ND 1 3.4 ND SEP 2.603 81.0 ND 50.0 ND 2.8 ND OCT 1.685 1 35.0 ND 46.0 2.6 ND NOV 2.049 1 54.0 13.0 72.0 29.1 1 4.3 0.3 74.0 DEC 3.053 ND 1 145.0 ND 3.6 ND AVERAGE: 2.033 26.637 | 100.0 63.0 13.0 29.1 59.626 | 3.3 0.3 0.615 1 OBSERVATIONS:12 12 1 12 1 | 12 1 EXCEEDANCES NO OF SAMPLES 13 23 13 23 | 12 23

COMPLIANCE :

CRITERIA :

NOTE :

BOD - YES SS - YES

BOD - 30 mg/l SS - 40 mg/l TP - 1.0 mg/l TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS. - EXCEEDS EFFLUENT CRITERIA

ND - NO DATA

REMEDIAL MEASURES

TP - YES

START DATE END DATE

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

ANTICIPATED **COMPLIANCE** 

MUNICIPALITY : ESSEX REGION
PLANT : ESSEX LAGOON S.W. DISTRICT

WORKS NUMBER : 110000837

TREATMENT : CONVENTIONAL LAGOON SEASONAL

PHOSPHORUS REMOVAL - CONTINUOUS

REGION : SOUTHWEST DISTRICT : WINDSOR

OPERATING AUTHORITY : MINISTRY

WATERCOURSE : CANARD RIVER
MAJOR BASIN : GREAT LAKES

MINOR BASIN : LAKE ERIE

IJC DESIGNATION : INDIRECT

DESIGN CAPACITY : 1.52 1000 m3
POPULATION SERVED : 2519

1987	AVG DA	Y	1	5 DA	Y BOD		1	SUSPEN	DED SOLI	DS	1 1	TOTAL PHO	SPHORUS
	FLOW		INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3	/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	   0.8	95	112.0	ND			160.0	ND			   5.9	ND	
FEB	0.8	65	148.0	ND			162.0	ND			7.4	ND	
MAR	0.8	72	146.0	ND			264.0	ND			7.7	ND	
APR	1.0	55	101.0	12.6			147.0	9.7			4.1	0.4	
MAY	0.9	96	172.0	ND			166.0	ND			7.7	ND	
JUN	1.2	98	152.0	ND			201.0	ND			9.0	ND	
JUL	0.9	45	133.0	ND			143.0	ND			7.5	ND	
AUG	0.9	61	228.0	ND			173.0	ND			8.7	ND	
SEP	1.4	19	83.0	ND			112.0	ND			5.9	ND	
OCT	0.7	63	169.0	ND			124.0	ND			8.5	ND	
NOV	0.7	24	140.0	11.2			155.0	29.0			10.9	0.6	
DEC	0.9° 	19	113.0 	ND			120.0 	ND			5.8 	ND	
AVERA	GE: 0.9	76	141.0	11.9		10.701	161.0	19.4		15.614	7.4	0.5	0.412
	VATIONS: 12 DANCES	2	12 	2			12 	2			12 	2	2000
10 OF	SAMPLES		13	28			1 13	27			13	28	

COMPLIANCE : CRITERIA : NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
BOD - YES BOD - 30 mg/L TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - YES SS - 40 mg/l \* - EXCEEDS EFFLUENT CRITERIA

TP - YES TP - 1.0 mg/L ND - NO DATA

REMEDIAL MEASURES ANTICIPATED

START DATE END DATE COMPLIANCE

MUNICIPALITY : EXETER

: EXETER LAGOON MUN.OP. '87

REGION : SOUTHWEST

PLANT

DISTRICT : OWEN SOUND

WORKS NUMBER : 110000221

OPERATING AUTHORITY : MUNICIPAL

TREATMENT : AERATED LAGOON

WATERCOURSE

: AUSABLE RIVER : GREAT LAKES

PHOSPHORUS REMOVAL - BATCH SUMMER STORAGE

MAJOR BASIN

: LAKE HURON

DESIGN CAPACITY : 3.39 1000 m3

MINOR BASIN

IJC DESIGNATION

: INDIRECT

POPULATION SERVED: 3750

1987	A	VG DAY	1	5 DA	Y BOD		İ	SUSPEN	DED SOLI	DS	i ·	TOTAL PHO	SPHORUS
	1	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(10	00 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	i	2.130	1 107.0	9.3			   187.0	8.8			6.1	0.6	
FEB	1	1.630	328.0	ND			422.0	ND			10.5	ND	
MAR	i	2.240	282.0	ND			223.0	ND			1 4.6	ND	
APR	1	2.640	42.0	ND			213.0	ND			1 2.3	ND	
MAY	1	1.650	106.0	ND			184.0	ND			7.2	ND	
JUN	1	1.440	113.0	ND			105.0	ND			6.9	ND	
JUL	1	1.450	91.0	ND			102.0	ND			5.9	ND	
AUG	1	1.400	72.0	ND			69.0	ND			1 4.2	ND	
SEP	1	1.580	87.0	ND			110.0	ND			1 4.9	ND	
OCT	1	2.330	242.0	ND			182.0	ND			7.2	ND	
NOV	1	3.100	192.0	ND			104.0	ND			1 4.4	ND	
DEC	1 	4.170	125.0 	ND			127.0 	ND			6.1	ND	
AVERA	GE :	2.147	149.0	9.3		19.809	1 169.0	8.8		18.744	1 5.9	0.6	1.278
OBSER EXCEE		ONS:12 Es	12 	1			12	1		10.144	1 12	1	1.2/8
NO OF	SAMI	PLES	1 13	1			1 13	1			l l 13	1	

COMPLIANCE :

CRITERIA :

NOTE :

BOD - YES SS - YES

TP - YES

BOD - 30 mg/l

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - 40 mg/l TP - 1.0 mg/l

\* - EXCEEDS EFFLUENT CRITERIA

ND - NO DATA

REMEDIAL MEASURES

START DATE END DATE

ANTICIPATED COMPLIANCE

MUNICIPALITY : FOREST

PLANT : FOREST LAGOON WORKS NUMBER : 110001346

TREATMENT : CONVENTIONAL LAGOON SEASONAL

: SOUTHWEST

DISTRICT : SARNIA OPERATING AUTHORITY : MINISTRY

WATERCOURSE

MAJOR BASIN

: HICKORY CREEK

: GREAT LAKES MINOR BASIN : LAKE HURON

DESIGN CAPACITY : 1.36 1000 m3 POPULATION SERVED : 2600

IJC DESIGNATION : INDIRECT

					·							
1987	AVG DAY	l I	5 DA	Y BOD		l	SUSPEN	DED SOLI	DS	1	TOTAL PHO	SPHORUS
	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)		(kg/d
JAN	1.027	   143.0	ND			1 187.0	ND			4.1	ND	
FEB	0.990	131.0	ND			181.0	ND			9.3	ND	
MAR	1.028	182.0	ND			230.0	ND			3.7	ND	
APR	1.096	110.0	23.5			166.0	64.1			27.0	1.2	
MAY	0.993	275.0	ND			359.0	ND			111.4	ND	
JUN	0.835	199.0	ND			243.0	ND			8.0	ND	
JUL	0.826	166.0	ND			232.0	ND			6.7	ND	
AUG	0.865	100.0	ND			138.0	ND			1 4.7	ND	
SEP	0.978	209.0	ND			284.0	ND			110.4	ND	
OCT	1.046	131.0	12.6			192.0	60.6			5.9	1.0	
VON	1.084	286.0	ND			249.0	ND			12.2	ND	
DEC	1.264 	156.0 	ND			156.0 	ND			5.2	ND	
AVERAC	GE: 1.003	174.0	18.1		19.468	218.0	62.4 *	······································	66.821	9.1	1.1	1.149
OBSERV	VATIONS: 12	1 12	2			1 12	2			1 12	2	
EXCEED	DANCES	l				i	-			1	7	
NO OF	SAMPLES	1 12	7			i 12	7			1 12	7	

COMPLIANCE :

CRITERIA :

NOTE :

BOD - YES

BOD - 30 mg/l

TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

SS - NO

SS - 40 mg/l

\* - EXCEEDS EFFLUENT CRITERIA

TP - YES TP - NONE ND - NO DATA

ANTICIPATED

REMEDIAL MEASURES

START DATE END DATE

COMPLIANCE

UNDER DISCUSSION WITH MUNICIPALITY

MUNICIPALITY : GLENCOE

PLANT : GLENCOE LAGOON

TREATMENT

WORKS NUMBER: 110001845

: CONVENTIONAL LAGOON SEASONAL

PHOSPHORUS REMOVAL - BATCH

REGION

: SOUTHWEST

DISTRICT : LONDON NORTH

OPERATING AUTHORITY : MINISTRY

WATERCOURSE

: NEWBIGGEN CREEK

MAJOR BASIN

: GREAT LAKES

MINOR BASIN

: LAKE ERIE

DESIGN CAPACITY :

POPULATION SERVED: 1800

0.94 1000 m3

IJC DESIGNATION

: INDIRECT

1	1987	1 /	AVG DAY	l I	5 DA	Y BOD		1	SUSPEN	IDED SOLI	DS	1	TOTAL PHO	SPHORUS
1		  (10	FLOW 000 m3/d)	INF  (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	INF  (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	INF  (mg/L)	EFF (mg/L)	LOAD (kg/d)
1	JAN		0.652	152.0	ND			160.0	ND			10.3	ND	

	(1000 m3/d)	INF  (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	INF  (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	INF  (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	0.652	1 152.0	ND			160.0	ND			10.3	ND	
FEB	0.632	167.0	ND			111.0	ND			8.4	ND	
MAR	0.480	160.0	ND			98.0	ND			7.3	ND	
APR	0.635	169.0	3.9			106.0	7.7			8.3	0.5	
MAY	0.634	151.0	ND			55.0	ND			8.0	ND	
JUN	ND	ND	ND			ND	ND			ND	ND	
JUL	0.750	109.0	ND			77.0	ND			8.9	ND	
AUG	0.748	206.0	ND			66.0	ND			7.6	ND	
SEP	0.373	108.0	ND			41.0	ND			7.0	ND	
OCT	0.648	164.0	12.0			195.0	22.2			8.3	1.0	
NOV	0.688	168.0	ND			ND	ND			8.4	ND	
DEC	1.086	130.0 	ND			139.0 	ND			5.9 	ND	
AVERAG	GE: 0.666	   153.0	8.0		5.127	105.0	15.0		9.637	8.0	0.8	0.489
	ATIONS:11 DANCES	11 	2			10 	2			j 11	2	
NO OF	SAMPLES	17	9			1 16	9			17	9	

COMPLIANCE :

CRITERIA :

NOTE :

BOD - YES SS - YES

TP - YES

BOD - 30 mg/l

SS - 40 mg/l TP - 1.0 mg/l BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

\* - EXCEEDS EFFLUENT CRITERIA

ND - NO DATA

ANTICIPATED

REMEDIAL MEASURES

START DATE END DATE

COMPLIANCE

ENGINEERING STUDY PHASE

88/03/01 89/09/30

MUNICIPALITY : GODERICH PLANT : GODERICH WPCP

WORKS NUMBER : 120000943

TREATMENT : CONVENTIONAL ACTIVATED SLUDGE

PHOSPHORUS REMOVAL-CONTINUOUS

REGION : SOUTHWEST DISTRICT : OWEN SOUND

OPERATING AUTHORITY : MUNICIPAL

WATERCOURSE : LAKE HURON MAJOR BASIN : GREAT LAKES

MINOR BASIN : LAKE HURON

IJC DESIGNATION : DIRECT

DESIGN CAPACITY : 9.09 1000 m3

POPULATION SERVED: 7400

1987	AVG DAY	1	5 DA	Y BOD		1	SUSPEN	DED SOLI	DS	1	TOTAL PHO	SPHORUS
	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	8.000	1 153.0	6.5		52.000	1   229.0	10.6		84.800	   6.0	1.0	7.680
FEB	7.000	153.0	6.7		46.900	311.0	8.0		56.000	6.3	1.1 *	7.700
MAR	9.900	93.0	8.2		81.180	274.0	13.1		129.690	4.6	1.2 *	11.880
APR	10.500	91.0	7.6		79.800	246.0	9.9		103.950	5.6	0.8	8.400
MAY	8.200	120.0	5.5		45.100	211.0	5.0		41.000	3.7	0.6	4.920
JUN	7.300	101.0	4.0		29.200	359.0	4.8		35.040	6.0	0.6	4.380
JUL	7.100	90.0	3.2		22.720	339.0	3.3		23.430	5.6	0.7	4.970
AUG	7.500	113.0	4.3		32.250	167.0	5.5		41.250	6.5	0.9	6.750
SEP	6.200	240.0	4.1		25.420	350.0	5.0		31.000	9.4	0.9	5.580
OCT	7.500	157.0	8.5		63.750	297.0	15.5		116.250	5.9	1.3 *	9.750
NOV	10.400	149.0	5.8		60.320	225.0	7.6		79.040	5.9	0.7	7.280
DEC	13.500 	103.0 	9.4		126.900	224.0 	14.1		190.350	7.8   7.8	0.9	12.150
AVERA	GE: 8.592	130.0	6.2		55.462	269.0	8.5		77.650	   6.1	0.9	7.620
OBSER	VATIONS:12	12	12			12	12			12	12	8.51.77.1
EXCEE	DANCES	1				l				i	3	
NO OF	SAMPLES	15	24			15	24			1 13	24	

COMPLIANCE : CRITERIA :

NOTE :

BOD - YES SS - YES

BOD - 25 mg/l SS - 25 mg/l

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

\* - EXCEEDS EFFLUENT CRITERIA

TP - NO TP - 1.0 mg/l

ND - NO DATA

REMEDIAL MEASURES

START DATE END DATE

ANTICIPATED COMPLIANCE

MUNICIPALITY : GOSFIELD NORTH REGION : SOUTHWEST : COTTAM LAGOON DISTRICT : WINDSOR WORKS NUMBER : 110002005 OPERATING AUTHORITY : MINISTRY

TREATMENT : CONVENTIONAL LAGOON SEASONAL : MADDOX DRAIN TO BELLE R. WATERCOURSE

PHOSPHORUS REMOVAL - BATCH MAJOR BASIN : GREAT LAKES MINOR BASIN : LAKE ERIE

DESIGN CAPACITY : 0.67 1000 m3 IJC DESIGNATION : INDIRECT

POPULATION SERVED : 825

1987	AVG DAY	1	5 DA	Y BOD		I	SUSPEN	DED SOLI	DS	1	OTAL PHO	SPHORUS
9	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	0.299	80.0	ND			91.0	ND			1 5.2	ND	
FEB	0.282	130.0	ND			166.0	ND			7.8	ND	
MAR	0.289	90.0	ND			114.0	ND			5.5	ND	
APR	0.335	111.0	11.4			79.0	43.2			1 4.8	0.5	
MAY	0.264	42.0	14.4			28.0	37.4			3.7	0.3	
JUN	0.296	39.0	ND			33.0	ND			3.8	ND	
JUL	0.284	55.0	ND			60.0	ND			4.7	ND	
AUG	0.260	86.0	ND			71.0	ND			1 4.4	ND	
SEP	0.303	47.0	ND			63.0	ND			1 4.3	ND	
OCT	0.299	83.0	ND			55.0	ND			5.6	ND	
NOV	0.305	173.0	10.9			224.0	73.5			7.0	0.4	
DEC	0.352	83.0 	ND			73.0 	ND			5.0 	ND	
AVERAG	E: 0.297	85.0	12.2		3.649	   88.0	51.4 *	-412	15.588	,     5.1	0.4	0.118
	ATIONS:12	12	3			12	3		.= 1.000	12	3	5.110
	SAMPLES	13	11			   13	11			   13	11	

COMPLIANCE : CRITERIA : NOTE :

> BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS BOD - 30 mg/l BOD - YES

TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - NO SS - 40 mg/l \* - EXCEEDS EFFLUENT CRITERIA

TP - YES TP - 1.0 mg/l ND - NO DATA

ANTICIPATED REMEDIAL MEASURES START DATE END DATE COMPLIANCE

UNDER DISCUSSION WITH MUNICIPALITY

MUNICIPALITY : HANOVER PLANT : HANOVER WPCP

WORKS NUMBER : 120001461

TREATMENT : CONVENTIONAL ACTIVATED SLUDGE

PHOSPHORUS REMOVAL-CONTINUOUS

DISTRICT : OWEN SOUND OPERATING AUTHORITY : MUNICIPAL

WATERCOURSE : SAUGEEN RIVER

: SOUTHWEST

MAJOR BASIN

REGION

: GREAT LAKES

MINOR BASIN

: LAKE HURON

6.36 1000 m3

IJC DESIGNATION : INDIRECT

DESIGN CAPACITY : POPULATION SERVED: 6389

-

l	ų.						1				1		
1987	4	VG DAY	1	5 DA	Y BOD		l	SUSPEN	DED SOLI	DS	i ·	TOTAL PHO	SPHORUS
	II.	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
_	(10	000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	1	3.511	l 00 0			27.477	1				1	72 S	
	!		99.0	6.6		23.173	NAME OF TAXABLE	6.5		22.822	6.3	0.6	2.212
FEB	ļ.	3.751	176.0	8.2		30.758	189.0	5.4		20.255	6.7	0.6	2.401
MAR	1	4.584	177.0	29.6		135.686	237.0	11.9		54.550	5.8	0.9	3.896
APR	1	3.824	123.0	6.4		24.474	188.0	6.2		23.709	5.6	0.6	2.409
MAY	1	3.150	129.0	2.4		7.560	269.0	4.2		13.230	7.5	0.7	2.331
JUN	1	3.537	351.0	4.1		14.502	348.0	3.4		12.026	8.2	0.7	2.582
JUL	1	3.489	71.0	2.2		7.676	168.0	3.9		13.607	6.1	0.8	2.687
AUG	1	3.851	365.0	6.1		23.491	271.0	9.1		35.044	8.4	1.1 *	4.198
SEP	1	3.629	430.0	9.2		33.387	383.0	11.2		40.645	8.2	1.2 *	4.464
OCT	1	3.685	206.0	14.9		54.907	285.0	7.8		28.743	8.2	0.9	3.243
NOV	1	4.404	350.0	6.7		29.507	222.0	6.3		27.745	7.7	0.8	3.303
DEC	!	4.464	242.0	9.9		44.194	185.0	8.7		38.837	6.3	0.5	2.321
		•									<u> </u>		
AVERA	GE:	3.823	227.0	8.9		35.776	242.0	7.1		27.601	7.1	0.8	3.004
OBSER	VATI	ONS:12	12	12			12	12			1 12	12	
EXCEE	DANC	ES									i	2	
NO OF	SAM	PLES	12	12			12	12			1 12	46	
						1						14. W. II	

CRITERIA : COMPLIANCE :

NOTE :

BOD - YES BOD - 25 mg/l SS - YES SS - 25 mg/l TP - NO TP - 1.0 mg/l

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

\* - EXCEEDS EFFLUENT CRITERIA

ND - NO DATA

REMEDIAL MEASURES

START DATE END DATE

ANTICIPATED COMPLIANCE

EXISTING EQUIPMENT/OPERATION IS BEING REPAIRED

87/11/30

87/11/30 1988

UPGRADING SLUDGE QUALITY

MUNICIPALITY : HARROW REGION : SOUTHWEST : HARROW LAGOON DISTRICT : WINDSOR WORKS NUMBER : 110002103 OPERATING AUTHORITY : MINISTRY

TREATMENT : CONVENTIONAL LAGOON SEASONAL WATERCOURSE : CEDAR CREEK PHOSPHORUS REMOVAL - BATCH MAJOR BASIN : GREAT LAKES MINOR BASIN

: LAKE ERIE DESIGN CAPACITY : 1.52 1000 m3 IJC DESIGNATION : INDIRECT

POPULATION SERVED: 2302

1987	AVG DAY	1	5 DA	Y BOD		Ĭ	SUSPEN	DED SOLI	DS	1 1	TOTAL PHO	OSPHORUS
	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d
JAN	1.217	1 110.0	17.6			1 140.0	63.1			4.9	1.3 *	
FEB	1.140	122.0	ND			214.0	ND			6.5	ND	
MAR	1.235	53.0	ND			147.0	ND			6.0	ND	
APR	1.282	77.0	ND			140.0	ND			4.4	ND	
MAY	1.186	157.0	11.1			201.0	21.2			7.3	0.6	
JUN	1.152	130.0	ND			171.0	ND			6.0	ND	
JUL	1.185	107.0	ND			138.0	ND			7.0	ND	
AUG	1.258	99.0	ND			120.0	ND			6.0	ND	
SEP	1.349	295.0	ND			381.0	ND			12.0	ND	
OCT	1.159	165.0	ND			204.0	ND			6.0	ND	
VOV	1.365	138.0	9.9			186.0	12.2			5.0	0.7	
DEC	1.583 	183.0 	ND			111.0 	ND			7.0 	ND	
AVERA	GE: 1.259	136.0	12.9		16.033	179.0	32.2		39.530	1 6.5	0.9	1.09
OBSER	VATIONS:12	12	3			1 12	3		50000EVENT (E)	1 12	3	
XCEE	DANCES	l				İ				i	1	
IO OF	SAMPLES	27	11			26	10			27	11	

COMPLIANCE : CRITERIA : NOTE :

> BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS BOD - YES BOD - 30 mg/l TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - 40 mg/l SS - YES \* - EXCEEDS EFFLUENT CRITERIA

TP - NO TP - 1.0 mg/l ND - NO DATA

ANTICIPATED REMEDIAL MEASURES START DATE END DATE COMPLIANCE

ENGINEERING STUDY PHASE 88/03/01 89/09/30

TREATMENT : CONVENTIONAL LAGOON ANNUAL WATERCOURSE : BLACK CK TO AUSABLE R.

MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE HURON
IJC DESIGNATION : INDIRECT

DESIGN CAPACITY : 0.59 1000 m3

POPULATION SERVED : 1000

M SERVED	T 100		-		1						
VG DAY	i	5 DA	Y BOD		1	SUSPEN	DED SOLI	DS		TOTAL PHO	SPHORUS
FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
0.469	65.0	ND			1 156.0	ND			   5.3	ND	
0.438	116.0	ND			167.0	ND			8.0	ND	
0.552	70.0	ND			102.0	ND			1 4.1	ND	
0.512	129.0	3.6			233.0	6.4			7.0	0.7	
0.417	94.0	ND			88.0	ND			6.4	ND	
0.404	92.0	ND			85.0	ND			7.7	ND	
0.415	82.0	ND			108.0	ND			6.5	ND	
0.453	ND ND	ND			ND	ND			1 4.9	ND	
0.458	76.0	ND			86.0	ND			5.3	ND	
0.479	72.0	0.9			71.0	4.5			5.6	0.9	
0.579	80.0	ND			121.0	ND			6.5	ND	
0.596	135.0 	ND			107.0 	ND			8.0	ND	
0.481	92.0	2.3		1.137	   120.0	5.5	-	2.716	163	0.8	0.394
ONS:12	11	2			11	2		21110	1 12	2	0.374
ES PLES	   11	7			   11	7			   12	7	
ONS:1 Es		2   11	2   11 2	2   11 2	2   11 2	2   11 2   11	2   11 2   11 2	2   11 2   11 2	2   11 2   11 2	2   11 2   11 2   12	2   11 2   11 2   12 2

COMPLIANCE : CRITERIA : NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

BOD - YES BOD - 30 mg/l TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - YES SS - 40 mg/l \* - EXCEEDS EFFLUENT CRITERIA

TP - YES TP - NONE ND - NO DATA

REMEDIAL MEASURES START DATE END DATE COMPLIANCE

UNDER DISCUSSION WITH MUNICIPALITY

MUNICIPALITY : INGERSOLL REGION

PLANT : INGERSOLL NEW WPCP DISTRICT : LONDON NORTH

WORKS NUMBER : 110003969 OPERATING AUTHORITY : MINISTRY

TREATMENT : CONVENTIONAL ACTIVATED SLUDGE WATERCOURSE : THAMES RIVER PHOSPHORUS REMOVAL - CONTINUOUS MAJOR BASIN : GREAT LAKES

MINOR BASIN : LAKE ERIE 6.81 1000 m3 IJC DESIGNATION : INDIRECT

: SOUTHWEST

DESIGN CAPACITY :

POPULATION SERVED : 5400

1987	AV	G DAY	1	5 DA	Y BOD		1	SUSPEN	DED SOLI	DS	1	TOTAL PHO	SPHORUS
	F	LOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(100	00 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	1	4.440	131.0	6.9		30.636	639.0	8.1		35.964	  13.3	0.3	1.199
FEB	1	4.370	330.0	12.2		53.314	386.0	6.6		28.842	8.4	0.2	0.87
MAR	i	5.460	160.0	13.0		70.980	295.0	18.7		102.102	6.9	0.6	3.27
APR	l	5.870	187.0	11.7		68.679	329.0	13.1		76.897	8.2	0.4	2.05
MAY	l	5.210	263.0	2.8		14.588	687.0	6.2		32.302	17.8	0.4	2.08
JUN	1	ND	ND	ND		ND	ND ND	ND		ND	ND	ND	ND
JUL	1	ND	183.0	4.1		ND	338.0	5.6		ND	8.2	0.2	ND
AUG	1	ND	149.0	5.7		ND	369.0	6.6		ND	1.1	0.9	ND
SEP	l	3.420	247.0	2.8		9.576	374.0	7.6		25.992	5.1	0.4	1.23
OCT	1	3.210	199.0	2.9		9.309	365.0	13.0		41.730	8.7	2.1 *	6.58
NOV	l	3.620	271.0	15.3		55.386	306.0	11.5		41.630	8.7	1.1 *	3.87
DEC	 	6.400	143.0 	21.8		139.520	223.0 	12.6		80.640	0.9 	0.3	1.85
AVERA	GE:	4.667	206.0	9.0		50.221	392.0	10.0		51.789	7.9	0.6	2.55
OBSER	VATIO	ONS: 9	11	11			11	11			11	11	
EXCEE	DANCE	S	1				ľ				1	2	
NO OF	SAME	PLES	16	18			16	18			1 16	18	

COMPLIANCE : CRITERIA : NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

BOD - YES BOD - 25 mg/l TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - YES \* - EXCEEDS EFFLUENT CRITERIA SS - 25 mg/l

TP - NO TP - 1.0 mg/l ND - NO DATA

ANTICIPATED REMEDIAL MEASURES START DATE END DATE COMPLIANCE

UNDER DISCUSSION WITH MUNICIPALITY 88/09/30 89/01/31

**ENFORCING BY-LAWS** 88/09/30

DEVELOPING NEW AND/OR IMPROVED METHODS OF DEALING WITH SLUDGE 88/09/30

MUNICIPALITY : INGERSOLL PLANT : INGERSOLL OLD WPCP

WORKS NUMBER : 110003978

TREATMENT : CONVENTIONAL ACTIVATED SLUDGE

PHOSPHORUS REMOVAL - CONTINUOUS

REGION : SOUTHWEST DISTRICT : LONDON NORTH

OPERATING AUTHORITY : MINISTRY

WATERCOURSE : THAMES RIVER

MAJOR BASIN : GREAT LAKES MINOR BASIN : LAKE ERIE

IJC DESIGNATION : INDIRECT

DESIGN CAPACITY : 3.40 1000 m3

POPULATION SERVED : 2800

. 0. 02			·										
1987	AVG	DAY		5 DA	Y BOD		1	SUSPEN	DED SOLI	DS		TOTAL PHO	SPHORUS
	FLO	)M	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000	m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	1	.000	131.0	8.9		8.900	639.0	21.4		21.400	13.3	0.5	0.530
FEB	(	.930	330.0	11.0		10.230	386.0	15.7		14.601	8.4	0.4	0.353
MAR	1 1	1.130	160.0	1.8		2.034	295.0	2.6		2.938	6.9	0.3	0.282
APR	1 1	.480	187.0	8.2		12.136	329.0	15.4		22.792		0.4	0.548
MAY	1 1	.170	263.0	6.1		7.137	687.0	10.2		11.934	17.8	0.4	0.491
JUN	1	ND	ND	ND		ND	ND	ND		ND	ND	ND	ND
JUL	Į.	ND	183.0	1.7		ND	338.0	6.8		ND	8.2	0.4	ND
AUG	l	ND	149.0	7.7		ND	369.0	10.8		ND	1.1	0.8	ND
SEP	1 1	.080	247.0	2.3		2.484	374.0	10.7		11.556	5.1	0.4	0.464
OCT	1	.080	199.0	5.2		5.616	365.0	9.4		10.152	8.7	0.9	0.918
NOV	1	.130	271.0	8.6		9.718	306.0	8.9		10.057	8.7	0.7	0.814
DEC	1 	.880	143.0 	8.4		15.792	223.0	8.8		16.544	0.9	0.4	0.752
AVERA	GE: 1	.209	1 206.0	6.4		8.227	392.0	11.0		13.553	1 7 0	0.5	0.572
	VATIONS DANCES	: 9	11	11			1 11	11		13.333	11	11	0.572
	SAMPLE	S	16	18			1 16	18			46	18	

COMPLIANCE :

REMEDIAL MEASURES

CRITERIA :

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS BOD - 25 mg/l BOD - YES TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - YES SS - 25 mg/l \* - EXCEEDS EFFLUENT CRITERIA

TP - YES TP - 1.0 mg/l ND - NO DATA

ANTICIPATED

START DATE END DATE

COMPLIANCE

MUNICIPALITY : KINCARDINE REGION : SOUTHWEST
PLANT : KINCARDINE LAGOON DISTRICT : OWEN SOUND
WORKS NUMBER : 110000864 COPERATING AUTHORITY : MINISTRY

TREATMENT : AERATED CELL PLUS LAGOON WATERCOURSE : LAKE HURON

CONTINUOUS DISCHARGE MAJOR BASIN : GREAT LAKES
PHOSPHORUS REMOVAL-CONTINUOUS MINOR BASIN : LAKE HURON

DESIGN CAPACITY : 5.90 1000 m3 IJC DESIGNATION : DIRECT

POPULATION SERVED : 5467

1987	AVG DAY	1	5 DA	Y BOD		I	SUSPEN	DED SOLI	DS	1	TOTAL PHO	SPHORUS
	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	2.249	ND	ND		ND	I   ND	ND		ND	   ND	ND	ND
FEB	1.996	ND	ND		ND	ND	ND		ND	ND	ND	ND
MAR	2.325	73.0	14.2		33.015	77.0	10.7		24.878	4.4	3.3 *	7.67
APR	2.202	135.0	25.6		56.371	110.0	42.5		93.585	7.7	2.2 *	4.84
MAY	1.950	150.0	18.0		35.100	194.0	13.6		26.520	9.1	3.5 *	6.86
JUN	2.090	157.0	14.4		30.096	239.0	12.1		25.289	9.1	4.2 *	8.82
JUL	2.055	77.0	9.6		19.728	134.0	12.4		25.482	6.6	2.1 *	4.21
AUG	2.076	126.0	9.6		19.930	131.0	19.2		39.859	7.3	1.3 *	2.74
SEP	1.971	98.0	12.0		23.652	128.0	20.2		39.814	1 4.7	1.5 *	2.89
OCT	2.455	ND	ND		ND	ND ND	ND		ND	ND	ND	ND
VOV	2.668	150.0	2.3		6.136	138.0	1.8		4.802	7.4	1.7 *	4.48
DEC	3.096 	ND 	ND		ND	ND 	ND		ND	ND I	ND	ND
AVERA	GE: 2.261	121.0	13.2		28.004	144.0	16.6		35.029	   7.0	2.5 *	5.31
OBSER	VATIONS:12	8	8			8	8			8	8	
XCEE	DANCES	1				į.				İ	8	
O OF	SAMPLES	12	13			13	13			I 12	13	

COMPLIANCE : CRITERIA : NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

BOD - INSUFFICIENT DATA BOD - 30 mg/l TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - INSUFFICIENT DATA SS - 40 mg/l \* - EXCEEDS EFFLUENT CRITERIA

TP - INSUFFICIENT DATA TP - 1.0 mg/L ND - NO DATA

REMEDIAL MEASURES ANTICIPATED

START DATE END DATE COMPLIANCE

START UP DIFFICULTIES BEING REMEDIED 86/05/23 87/11/01

EXISTING EQUIPMENT/OPERATION IS BEING REPAIRED 87/11/30 88/04/30

B-41

MUNICIPALITY : KINGSVILLE

: KINGSVILLE LAGOON

TREATMENT

PLANT

WORKS NUMBER: 120001078

: CONVENTIONAL LAGOON SEASONAL

PHOSPHORUS REMOVAL - BATCH

REGION

: SOUTHWEST

DISTRICT

: WINDSOR

WATERCOURSE

OPERATING AUTHORITY : MUNICIPAL

MAJOR BASIN

: WIGLE CREEK : GREAT LAKES

MINOR BASIN

: LAKE ERIE

DESIGN CAPACITY :

2.75 1000 m3

IJC DESIGNATION

: INDIRECT

POPULATION SERVED : 5200

1987 | AVG DAY 5 DAY BOD SUSPENDED SOLIDS TOTAL PHOSPHORUS FLOW **EFF** LOAD INF INF **EFF** LOAD INF **EFF** LOAD |(1000 m3/d) |(mg/L) (mg/L) (%REM) (kg/d) |(mg/L) (mg/L) (%REM) (kg/d) (mg/L) (mg/L) (kg/d) | JAN 3.032 8.0 9.0 7.0 11.8 1 1.4 0.7 9.0 FEB 3.640 12.8 10.0 18.5 1 1.9 1.2 \* 4.791 1 1.4 MAR 9.0 26.1 12.0 32.9 1.7 \* APR 5.386 10.0 40.0 14.0 47.3 0.9 2.2 \* 3.220 MAY ND ND ND ND | ND ND JUN 3.333 ND ND ND | ND ND 3.303 ND ND JUL ND ND ND ND AUG 3.490 ND ND ND ND ND ND SEP 3.030 20.0 ND 36.0 ND 1 2.6 ND I OCT 2.809 ND 1.7 6.9 ND | ND 0.9 NOV 3.679 9.0 12.2 23.0 25.6 | 1.0 0.9 DEC 5.930 ND ND ND ND | ND ND AVERAGE: 3.804 11.0 17.0 77.337 17.0 23.8 104.844 | 1.5 1.2 \* 5.317 | OBSERVATIONS:12 6 6 6 6 6

COMPLIANCE :

EXCEEDANCES

NO OF SAMPLES

CRITERIA :

NOTE :

6

BOD - YES SS - YES

TP - NO

BOD - 30 mg/l SS - 40 mg/l

TP - 1.0 mg/l

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

6

- EXCEEDS EFFLUENT CRITERIA

ND - NO DATA

REMEDIAL MEASURES

START DATE END DATE

3

6

ANTICIPATED COMPLIANCE

SEWER SEPARATION UNDERWAY

PHOSPHORUS REMOVAL OPERATION UNDER REVIEW

88/06/30 88/06/30

MUNICIPALITY : LEAMINGTON

: LEAMINGTON WPCP

REGION DISTRICT

: SOUTHWEST

PLANT

OPERATING AUTHORITY : MUNICIPAL

: WINDSOR

TREATMENT : EXTENDED AERATION

WORKS NUMBER : 120001069

WATERCOURSE

: LAKE ERIE

PHOSPHORUS REMOVAL - CONTINUOUS

MAJOR BASIN

: GREAT LAKES

DESIGN CAPACITY :

19.09 1000 m3

MINOR BASIN

: LAKE ERIE

POPULATION SERVED: 12600

IJC DESIGNATION : DIRECT

l		l										
1987	AVG DAY	l	5 DA	Y BOD		Î	SUSPEN	DED SOLI	DS	1	TOTAL PHO	SPHORUS
1	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
ļ	(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
   JAN	9.210	270.0	6.8		62.628	   411.0	4.5		41.445	1 4.3	0.7	6.631
FEB	8.000	215.0	15.0		120.000	216.0	13.0		104.000	1 4.4	0.9	6.880
MAR	8.100	696.0	8.2		66.420	321.0	5.3		42.930	1 4.1	0.5	4.293
APR	18.010	246.0	5.8		104.458	166.0	5.1		91.851	7 page	0.5	8.465
MAY	10.890	602.0	8.7		94.743	512.0	3.7		40.293	6.4	0.5	5.663
JUN	13.200	154.0	7.4		97.680	164.0	3.2		42.240		0.9	11.748
JUL	14.570	144.0	7.9		115.103	159.0	7.8		113.646	3.0	0.8	11.073
AUG	23.450	253.0	17.8		417.410	540.0	125.0		2931.250	2.7	0.4	8.442
SEP	20.720	299.0	9.2		190.624	309.0	14.3		296.296	2.6	0.7	15.333
OCT	14.600	213.0	5.4		78.840	288.0	11.5		167.900	3.6	0.3	4.818
NOV	20.890	407.0	4.3		89.827	360.0	9.7		202.633	4.1	1.0	20.681
DEC	15.520	362.0	27.9		433.008	274.0	23.6		366.272	4.0	0.9	13.347
i <del></del>		<del> </del>				l I				<del> </del>		
AVERA	GE: 14.763	322.0	10.4		155.895	310.0	18.9		370.063	4.0	0.7	9.781
The second second	VATIONS:12 DANCES	12 	12			12	12			12	12	
	SAMPLES	110	107			l   115	116			  110	116	
I		1								]		

COMPLIANCE :

CRITERIA :

NOTE :

BOD - YES SS - YES

BOD - 25 mg/l

SS - 25 mg/l

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS. \* - EXCEEDS EFFLUENT CRITERIA

TP - YES

TP - 1.0 mg/l

ND - NO DATA

ANTICIPATED

REMEDIAL MEASURES

START DATE END DATE

COMPLIANCE

UPGRADING SLUDGE QUALITY

CONDUCTING TREATABILITY STUDIES

88/06/01 88/06/01

MUNICIPALITY : LISTOWEL : LISTOWEL LAGOON CONT DIS (SUMMER SPRAY)

WORKS NUMBER : 110000409

TREATMENT : AERATED CELL PLUS LAGOON

LAGOON AND SPRAY PHOSPHORUS REMOVAL - CONTINUOUS

DESIGN CAPACITY : 4.91 1000 m3

POPULATION SERVED : 4554

REGION : SOUTHWEST : LONDON NORTH

OPERATING AUTHORITY : MINISTRY

WATERCOURSE : CHAPMAN DRAIN

MAJOR BASIN : GREAT LAKES MINOR BASIN : LAKE HURON

IJC DESIGNATION : INDIRECT

	T						T			-	T		
1987	AVG	DAY		5 DA	Y BOD			SUSPEN	DED SOLI	DS	 	TOTAL PHO	SPHORUS
	FL	.OW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000	m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	1	5.089	216.0	ND		ND	238.0	ND		ND	3.3	ND	ND
FEB	1	4.872	252.0	ND		ND	317.0	ND		ND	3.6	ND	ND
MAR	1	6.878	310.0	17.5		120.365	350.0	24.3		167.135	4.6	1.8 *	12.587
APR		6.258	247.0	18.5		115.773	127.0	30.0		187.740	7.0	0.6	3.943
MAY		4.411	128.0	ND		ND	161.0	ND		ND	4.3	ND	ND
JUN	1	4.769	242.0	ND		ND	190.0	ND		ND	6.9	ND	ND
JUL	1	4.147	240.0	ND		ND	343.0	ND		ND	4.9	ND	ND
AUG	1	3.848	842.0	ND		ND	808.0	ND		ND	7.3	ND	ND
SEP		3.696	295.0	ND		ND	246.0	ND		ND	4.7	ND	ND
OCT		4.115	294.0	ND		ND	218.0	ND		ND	3.9	ND	ND
NOV	1	5.660	303.0	4.8		27.168	169.0	5.6		31.696	3.9	0.7	3.792
DEC	1	6.241	202.0	7.1		44.311	215.0	7.9		49.304	5.0	0.6	3.932
AVEDA	CE.	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	1 200 0	13.0		7/ 00/	1 202 0	47.0		400.040	<del> </del>		
AVERA		4.999	298.0	12.0		76.904	282.0	17.0		108.969	5.0	0.9	6.064
	VATION		1 12	4			12	4			12	4	
	DANCES		l 25	/2			1 25	/2			1 05	1	
NU UF	SAMPL	E5	25	42			25	42			25	42	

COMPLIANCE : CRITERIA : NOTE :

> BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS BOD - 30 mg/l BOD - YES TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - YES SS - 40 mg/l \* - EXCEEDS EFFLUENT CRITERIA

TP - NO TP - 1.0 mg/l ND - NO DATA

ANTICIPATED

REMEDIAL MEASURES START DATE END DATE COMPLIANCE

UNDER DISCUSSION WITH MUNICIPALITY

MUNICIPALITY : LOBO

PLANT

: KILWORTH HEIGHTS WPCP

WORKS NUMBER : 110003362

TREATMENT

: EXTENDED AERATION

DISTRICT

: SOUTHWEST

: LONDON NORTH

OPERATING AUTHORITY : MINISTRY

WATERCOURSE

REGION

: THAMES RIVER

MAJOR BASIN

: GREAT LAKES

MINOR BASIN

IJC DESIGNATION

: LAKE ERIE

: INDIRECT

DESIGN CAPACITY :

| AVERAGE: 0.161 |

OBSERVATIONS: 12

EXCEEDANCES NO OF SAMPLES 12

24

0.26 1000 m3

PHOSPHORUS REMOVAL - CONTINUOUS

12

24

POPULATION SERVED :

1987 | AVG DAY

JAN

FEB

MAR

APR

MAY

JUN

AUG

SEP

OCT

NOV

DEC

| JUL

210

LA	TION SERVED	: 21	0									
.	AVG DAY		5 DA	Y BOD			SUSPEN	DED SOLI	DS		TOTAL PHO	SPHORUS
1	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
1	(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
ŀ	0.065	   30.0	1.2		0.078	96.0	1.9		0 123	120	0.4	0.030
1	0.061	63.0	3.2		0.195	1 470.0	3.5		0.123 0.213	W. Andrews	0.4	0.029
i	0.066	1 40.0	1.9		0.125	413.0	2.1		0.139		0.5	0.029
ł	0.126	41.0	1.0		0.126	225.0	7.0				0.4	0.028
- 1		M need so							0.882	6 SSM155	0.6	0.069
	0.348	35.0	1.8		0.626	59.0	1.1		0.383	0.9	0.2	0.080
- 1	0.348	52.0	1,6		0.557	331.0	1.9		0.661	4.6	0.3	0.115
-1	0.250	18.0	2.7		0.675	66.0	2.4		0.600	2.7	0.2	0.058
-1	0.225	19.0	0.6		0.135	229.0	2.8		0.630	2.7	0.3	0.065
-	0.130	64.0	0.7		0.091	373.0	1.4		0.182	8.3	0.3	0.033
1	0.126	55.0	0.1		0.013	167.0	1.0		0.126	1 5.4	0.1	0.018
1	0.081	32.0	0.4		0.032	147.0	0.6		0.049	1 4.1	0.2	0.013
1	0.105	32.0	0.7		0.073	106.0	2.2		0.231	4.2	0.2	0.022
1		<u> </u>	and a second			1				1		
AG	E: 0.161	40.0	1.3		0.227	224.0	2.3		0.352	   3.9	0.3	0.047

COMPLIANCE :

CRITERIA :

NOTE :

12

24

BOD - YES SS - YES

BOD - 25 mg/l SS - 25 mg/l

TP - 1.0 mg/l

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

| 12

| 24

12

24

\* - EXCEEDS EFFLUENT CRITERIA ND - NO DATA

12

24

ANTICIPATED

REMEDIAL MEASURES

TP - YES

START DATE END DATE

COMPLIANCE

MUNICIPALITY : LONDON

PLANT : ADELAIDE WPCP

WORKS NUMBER : 120000872

TREATMENT : CONVENTIONAL ACTIVATED SLUDGE

PHOSPHORUS REMOVAL - CONTINUOUS

REGION

: SOUTHWEST

DISTRICT : LONDON SOUTH

OPERATING AUTHORITY : MUNICIPAL

WATERCOURSE

: THAMES RIVER

MAJOR BASIN

: GREAT LAKES

MINOR BASIN

: LAKE ERIE

IJC DESIGNATION : INDIRECT

POPULATION SERVED : 35678

DESIGN CAPACITY : 18.18 1000 m3

1987	AVG DAY	1	5 DA	Y BOD		1	SUSPEN	DED SOLI	DS	1	TOTAL PHO	SPHORUS
	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	l   18.566	1 127.0	3.0		55.698	l l 210.0	5.0		92.830	15.1	0.6	11.140
FEB	16.708	110.0	2.0		33.416		5.0		83.540		0.6	10.025
MAR	20.098	115.0	2.0		40.196	1 182.0	6.0		120.588		0.3	6.029
APR	21.512	137.0	3.0		64.536		6.0		129.072	1,555	0.4	8.605
MAY	17.864	125.0	4.0		71.456		4.0		71.456	Si com con	0.4	7.146
JUN	15.792	121.0	4.0		63.168	176.0	6.0		94.752	•	0.8	12.634
JUL	16.333	158.0	3.0		48.999	337.0	5.0		81.665		0.7	11.433
AUG	18.214	124.0	3.0		54.642	i was w	5.0		91.070	•	0.6	10.928
SEP	18.023	181.0	3.0		54.069	190.0	4.0		72.092		0.5	9.011
OCT	17.106	203.0	3.0		51.318	219.0	6.0		102.636		0.7	11.974
NOV	17.959	159.0	8.0		143.672	188.0	8.0		143.672		0.7	12.571
DEC	21.172	132.0 	3.0		63.516	147.0	7.0		148.204		0.6	12.703
AVERAC	E: 18.279	141.0	3.4	, :	62.057	202.0	5.6		102.631	1 5.9	0.6	10.350
OBSER\	ATIONS:12	12 	12			12 	12			1 12	12	, 31330
NO OF	SAMPLES	148	148			231	229			  224	224	

COMPLIANCE :

CRITERIA :

NOTE :

BOD - YES SS - YES

BOD - 25 mg/l

SS - 25 mg/l TP - 1.0 mg/l

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

\* - EXCEEDS EFFLUENT CRITERIA

ND - NO DATA

REMEDIAL MEASURES

TP - YES

START DATE END DATE

ANTICIPATED COMPLIANCE

MUNICIPALITY : LONDON REGION

: SOUTHWEST PLANT : GREENWAY WPCP DISTRICT : LONDON SOUTH WORKS NUMBER : 120000863 OPERATING AUTHORITY : MUNICIPAL

TREATMENT : CONVENTIONAL ACTIVATED SLUDGE WATERCOURSE : THAMES RIVER PHOSPHORUS REMOVAL - CONTINUOUS

MAJOR BASIN : GREAT LAKES MINOR BASIN : LAKE ERIE

DESIGN CAPACITY : 124.33 1000 m3 IJC DESIGNATION : INDIRECT

POPULATION SERVED: 168274

1987	1	AVG DAY	1	5 DA	Y BOD		1	SUSPEN	DED SOLI	DS	1	TOTAL PHO	SPHORUS
	1	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1	000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	l	104.111	229.0	5.0		520.555	1 150.0	14.0		1457.554	   6.8	1.1 *	114.522
FEB	1	98.479	238.0	5.0		492.395	181.0	13.0		1280.227	6.5	0.8	78.783
MAR	l	119.120	244.0	5.0		595.600	210.0	12.0		1429.440	7.0	0.6	71.472
APR	1	128.012	207.0	5.0		640.060	206.0	13.0		1664.156	7.6	0.8	102.410
MAY	1	91.567	388.0	4.0		366.268	288.0	15.0		1373.505	9.7	0.6	54.940
JUN	1	98.439	218.0	8.0		787.512	315.0	13.0		1279.707	9.8	0.7	68.907
JUL	I	99.699	233.0	5.0		498.495	200.0	9.0		897.291	6.7	0.6	59.819
AUG	1	103.856	245.0	4.0		415.424	191.0	10.0		1038.560	5.7	0.5	51.928
SEP	1	116.942	238.0	4.0		467.768	251.0	11.0		1286.362	9.0	0.8	93.554
OCT	l	110.150	253.0	4.0		440.600	251.0	12.0		1321.800	9.1	0.7	77.105
NOV	i	119.441	244.0	5.0		597.205	178.0	13.0		1552.733	8.1	0.9	107.497
DEC	 	139.676	225.0 	4.0		558.704	179.0 	13.0		1815.788	5.6 	0.4	55 <b>.87</b> 0
AVERA	GE:	110.791	247.0	4.8		531.716	217.0	12.3		1366.427	7.6	0.7	78.067
		IONS:12	12	12			12	12			12	12	
EXCEE!			   164	165			i i 325	329			  231	1 230	

COMPLIANCE : CRITERIA : NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

BOD - YES BOD - 25 mg/l TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - YES SS - 25 mg/l \* - EXCEEDS EFFLUENT CRITERIA

TP - NO TP - 1.0 mg/l ND - NO DATA

ANTICIPATED REMEDIAL MEASURES START DATE END DATE COMPLIANCE

MINOR DEVIATIONS - NO REMEDIAL MEASURES ARE REQUIRED

MUNICIPALITY : LONDON PLANT : OXFORD WPCP

WORKS NUMBER : 120000854

TREATMENT : CONVENTIONAL ACTIVATED SLUDGE

PHOSPHORUS REMOVAL - CONTINUOUS

REGION DISTRICT : SOUTHWEST

: LONDON SOUTH OPERATING AUTHORITY : MUNICIPAL

WATERCOURSE : THAMES RIVER

MAJOR BASIN

: GREAT LAKES

MINOR BASIN

: LAKE ERIE

POPULATION SERVED: 13733

DESIGN CAPACITY : 5.45 1000 m3

IJC DESIGNATION

: INDIRECT

	TION SERVED	. 1575										
1987	I   AVG DAY		5 DA	Y BOD			SUSPEN	IDED SOLI	DS		TOTAL PHO	SPHORUS
	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	l   4.078	1 136.0	3.0		12.234	1 141.0	7.0		28.546	1 6.4	0.5	2.039
FEB	3.810	119.0	3.0		11.430	144.0	8.0			1.0	0.6	2.286
MAR	2.246	133.0	5.0		11.230	190.0	10.0		22.460	6.5	0.4	0.898
APR	4.664	114.0	4.0		18.656	165.0	7.0		32.648	6.4	0.5	2.332
MAY	4.032	160.0	3.0		12.096	176.0	4.0		16.128	6.4	0.5	2.016
JUN	3.649	159.0	6.0		21.894	199.0	11.0		40.139	9.6	0.7	2.554
JUL	3.442	156.0	4.0		13.768	210.0	5.0		17.210	7.8	0.6	2.065
AUG	3.640	166.0	3.0		10.920	205.0	5.0		18.200	10.2	1.2 *	4.368
SEP	3.289	198.0	3.0		9.867	202.0	4.0		13.156	9.6	0.9	2.960
OCT	3.409	131.0	3.0		10.227	189.0	8.0		27.272	8.4	0.6	2.045
NOV	4.268	141.0	4.0		17.072	161.0	11.0		46.948	9.1	0.9	3.841
DEC	3.926	121.0	5.0		19.630	141.0	9.0		35.334	6.5	0.6	2.356
	l					1				İ		
AVERA	GE: 3.704	1 144.0	3.8		14.085	   177.0	7.4		27.377	   7.9	0.7	2.480
OBSER	VATIONS:12	12	12			1 12	12			1 12	12	00
EXCEE	DANCES	1				Î				i	1	
NO OF	SAMPLES	118	135			164	188			161	184	
		1				1				1		

COMPLIANCE :

CRITERIA :

NOTE :

BOD - YES SS - YES

TP - NO

BOD - 25 mg/l

SS - 25 mg/l TP - 1.0 mg/l

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

\* - EXCEEDS EFFLUENT CRITERIA

ND - NO DATA

ANTICIPATED

REMEDIAL MEASURES

START DATE END DATE

**COMPLIANCE** 

MINOR DEVIATIONS - NO REMEDIAL MEASURES ARE REQUIRED

MUNICIPALITY : LONDON

REGION

: SOUTHWEST

: POTTERSBURG WPCP

DISTRICT

: LONDON SOUTH

WORKS NUMBER: 120000836

OPERATING AUTHORITY : MUNICIPAL

TREATMENT : CONVENTIONAL ACTIVATED SLUDGE

WATERCOURSE

: THAMES RIVER

PHOSPHORUS REMOVAL - CONTINUOUS

MAJOR BASIN

: GREAT LAKES

DESIGN CAPACITY : 22.04 1000 m3

MINOR BASIN

POPULATION SERVED : 25653

: LAKE ERIE IJC DESIGNATION : INDIRECT

1987	AVG DAY	1	5 DA	Y BOD		1	SUSPEN	DED SOLI	DS	1	TOTAL PHO	SPHORUS
	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d
JAN	16.823	94.0	3.0		50.469	   103.0	3.0		50.469	1 4.1	0.6	10.094
FEB	14.901	95.0	3.0		44.703	116.0	3.0		44.703	4.8	0.6	8.94
MAR	17.433	89.0	2.0		34.866	106.0	4.0		69.732	3.9	0.4	6.973
APR	18.897	80.0	3.0		56.691	89.0	5.0		94.485	3.6	0.5	9.448
MAY	14.091	136.0	3.0		42.273	111.0	5.0		70.455	5.0	0.5	7.045
JUN	13.668	126.0	5.0		68.340	126.0	4.0		54.672	5.9	0.9	12.30
JUL	12.818	163.0	3.0		38.454	149.0	5.0		64.090	6.0	0.8	10.25
AUG	13.526	138.0	4.0		54.104	131.0	6.0		81.156	6.5	0.7	9.468
SEP	16.140	137.0	4.0		64.560	134.0	5.0		80.700	7.5	0.7	11.298
OCT	16.250	298.0	3.0		48.750	228.0	8.0		130.000	8.3	0.7	11.37
NOV	20.501	141.0	3.0		61.503	127.0	9.0		184.509	6.1	0.6	12.301
DEC	24.479 	96.0	4.0		97.916	87.0 	7.0		171.353	3.8 	0.4	9.792
AVERA	GE: 16.627	1 133.0	3.3		55.219	     126.0	5.3		91.360		0.4	
	VATIONS: 12	1 12	12		JJ.L17	1 12	12		71.300	12	0.6 12	9.94
	DANCES	İ				'-	12			12	12	
NO OF	SAMPLES	129	151			182	233			197	226	

COMPLIANCE :

CRITERIA :

NOTE :

BOD - YES SS - YES

BOD - 25 mg/l

TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS. \* - EXCEEDS EFFLUENT CRITERIA

TP - YES

SS - 25 mg/l TP - 1.0 mg/l

ND - NO DATA

ANTICIPATED

REMEDIAL MEASURES

START DATE END DATE

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

COMPLIANCE

MUNICIPALITY : LONDON

: VAUXHALL WPCP

WORKS NUMBER: 120000845

TREATMENT

DESIGN CAPACITY :

PLANT

: CONVENTIONAL ACTIVATED SLUDGE

PHOSPHORUS REMOVAL - CONTINUOUS

20.91 1000 m3

REGION

: SOUTHWEST

DISTRICT : LONDON SOUTH

OPERATING AUTHORITY : MUNICIPAL

WATERCOURSE MAJOR BASIN

: THAMES RIVER : GREAT LAKES

MINOR BASIN

: LAKE ERIE

IJC DESIGNATION

: INDIRECT

POPULATION SERVED :

22981

1987 | AVG DAY 5 DAY BOD SUSPENDED SOLIDS TOTAL PHOSPHORUS FLOW INF EFF LOAD INF **EFF** LOAD EFF INF LOAD |(1000 m3/d) |(mg/L) (mg/L) (%REM) (kg/d) (mg/L) (mg/L) (%REM) (kg/d) (mg/L) (mg/L) (kg/d) JAN 17.645 | 245.0 3.0 52.935 | 191.0 6.0 105.870 | 5.3 0.5 8.822 | FEB 17.554 | 251.0 5.0 87.770 | 187.0 10.0 175.540 | 4.8 0.5 8.777 MAR 18.950 | 199.0 3.0 56.850 | 219.0 8.0 151.600 | 4.7 0.4 7.580 | APR ND 198.0 5.0 ND | 173.0 8.0 ND | 3.9 0.6 ND 364.0 ND MAY 4.0 ND | 209.0 5.0 ND | 4.8 0.4 ND 80.115 | 200.0 JUN 16.023 | 239.0 5.0 9.0 144.207 | 5.5 0.5 8.011 I 83.270 | 23.0 JUL 16.654 | 28.0 5.0 9.0 149.886 | 5.2 0.7 11.658 | AUG 17.333 | 361.0 5.0 86.665 | 257.0 9.0 155.997 | 7.4 0.7 12.133 SEP 16.005 | 353.0 5.0 80.025 | 292.0 7.0 112.035 | 8.1 0.6 9.603 | 16.923 | 155.0 OCT 3.0 50.769 | 131.0 10.0 169.230 | 6.3 0.4 6.769 | NOV 18.444 | 247.0 3.0 55.332 | 200.0 9.0 165.996 | 7.3 0.5 9.222 | | DEC | 18.190 | 189.0 3.0 54.570 | 244.0 8.0 145.520 | 5.3 0.6 10.914 | | AVERAGE: 17.372 | 236.0 4.1 68.830 | 194.0 8.2 147.588 | 5.7 0.5 9.349 | OBSERVATIONS: 10 12 12 12 12 1 12 12 **EXCEEDANCES** 1

COMPLIANCE :

NO OF SAMPLES

CRITERIA :

151

NOTE :

200

233

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

1196

225

BOD - YES BOD - 25 mg/l SS - YES SS - 25 mg/l

128

\* - EXCEEDS EFFLUENT CRITERIA

TP - YES TP - 1.0 mg/L ND - NO DATA

ANTICIPATED

START DATE END DATE

COMPLIANCE

NONE

REMEDIAL MEASURES

MUNICIPALITY: LUCAN REGION: SOUTHWEST
PLANT: LUCAN LAGOON
DISTRICT: LONDON NORTH
WORKS NUMBER: 110000855
OPERATING AUTHORITY: MINISTRY

TREATMENT : CONVENTIONAL LAGOON SEASONAL WATERCOURSE : LITTLE AUSABLE RIVER

PHOSPHORUS REMOVAL-CONTINUOUS MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE HURON

DESIGN CAPACITY : 0.29 1000 m3 IJC DESIGNATION : INDIRECT

POPULATION SERVED: 1563

1987	AVG DAY	1	5 DA	Y BOD		1	SUSPEN	DED SOLI	DS	1 1	TOTAL PHO	SPHORUS
1	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d
JAN	0.696	1 153.0	ND			218.0	ND			   8.0	ND	
FEB	0.625	137.0	ND			184.0	ND			9.8	ND	
AAR	1.088	25.0	ND			61.0	ND			2.3	ND	
APR	0.941	26.0	20.5			42.0	41.8			1.8	0.5	
AAY	0.495	47.0	ND			59.0	ND			1 4.2	ND	
JUN	0.571	212.0	ND			148.0	ND			7.6	ND	
JUL	0.480	81.0	ND			93.0	ND			4.7	ND	
AUG	0.570	77.0	ND			72.0	ND			4.2	ND	
SEP	0.536	145.0	ND			196.0	ND			6.9	ND	
OCT	0.920	174.0	6.2			166.0	14.7			7.1	0.4	
VOV	1.038	ND	ND			ND	ND			ND	ND	
DEC	1.422 	110.0 	ND			75.0 	ND			5.6 	ND	
VERAG	GE: 0.782	108.0	13.4		12.497	   120.0	28.3		26.429	1 5.7	0.4	0.41
	ATIONS:12	11 	2			i 11	2		· · · ·	11	2	0.41
O OF	SAMPLES	1 11	7			1 11	7			1 11	7	

COMPLIANCE : CRITERIA : NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

BOD - YES BOD - 30 mg/L TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - YES SS - 40 mg/l \* - EXCEEDS EFFLUENT CRITERIA

TP - YES TP - 1.0 mg/l ND - NO DATA

REMEDIAL MEASURES ANTICIPATED

START DATE END DATE COMPLIANCE

MUNICIPALITY : MAIDSTONE

PLANT : BELLE RIVER-MAIDSTONE WPCP

WORKS NUMBER: 110002078

TREATMENT : EXTENDED AERATION

PHOSPHORUS REMOVAL - CONTINUOUS

REGION

: SOUTHWEST

DISTRICT : WINDSOR

WATERCOURSE

OPERATING AUTHORITY : MINISTRY

: LAKE ST.CLAIR

MAJOR BASIN

: GREAT LAKES

MINOR BASIN

: LAKE ERIE

IJC DESIGNATION

: DIRECT

DESIGN CAPACITY :

6.81 1000 m3

POPULATION SERVED: 7448

						T						
1987	AVG DAY		5 D/	AY BOD			SUSPEN	DED SOL I	DS	1	TOTAL PHO	SPHORUS
	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/c	)  (mg/L	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	i 5.831	   69.0	5.0		29.155	   88.0	12.2		71.138	13.1	0.7	4.315
FEB	5.462	71.0			42.057		10.8		58.990		0.3	1.748
MAR	6.020				28.294	87.0	12.2		73.444		0.1	0.722
APR	6.471	45.0	4.4		28.472	90.0	14.0		90.594		0.4	2.847
MAY	5.168	91.0	4.3		22.222	98.0	11.1		57.365		0.6	2.997
JUN	5.422	71.0	4.8		26.026	112.0	10.3		55.847	•	1.0	5.585
JUL	5.515	52.0	5.3		29.229	103.0	11.2		61.768	Marian Control	0.7	3.695
AUG	5.369	56.0	6.7		35.972	89.0	9.3		49.932	3.1	0.5	2.470
SEP	5.499	74.0	5.0		27.495	118.0	10.8		59.389	4.1	0.9	4.894
OCT	4.674	116.0	3.1		14.489	174.0	10.8		50.479	9.7	1.3 *	6.216
NOV	5.166	82.0	3.2		16.531	185.0	7.4		38.228	6.5	0.7	3.461
DEC	6.597 	'   49.0 	4.5		29.687	80.0 	13.5		89.059	3.1	1.0	6.267
AVERA	GE: 5.599	70.0	4.9		27.469	     111.0	11.1		63.019	1 4.1	0.7	3.768
OBSER	VATIONS:12	j 12	12			1 12	12		33.017	1 12	12	3.700
EXCEE	DANCES	i				i	·.=			i -	1	
NO OF	SAMPLES	66	55			144	138			I 32	36	
	0.11.11.22.0	33				144	130			32 	30	

COMPLIANCE :

CRITERIA :

NOTE :

BOD - YES

BOD - 25 mg/l

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - YES TP - NO

SS - 25 mg/l TP - 1.0 mg/l

\* - EXCEEDS EFFLUENT CRITERIA

ND - NO DATA

REMEDIAL MEASURES

START DATE END DATE

ANTICIPATED COMPLIANCE

ENVIRONMENTAL ASSESSMENT PROCESS

89/03/01 90/03/31 90/06/30

MUNICIPALITY : MARKDALE

: MARKDALE LAGOON

WORKS NUMBER : 110000418

PLANT

TREATMENT : AERATED LAGOON

PHOSPHORUS REMOVAL - CONTINUOUS

EXFILTRATION LAGOON

DESIGN CAPACITY : 1.12 1000 m3

POPULATION SERVED : 1210

REGION

: SOUTHWEST

DISTRICT : OWEN SOUND

OPERATING AUTHORITY : MINISTRY

WATERCOURSE : NO DISC.TO SURFACE WATER

MAJOR BASIN

: GREAT LAKES : LAKE HURON

MINOR BASIN

IJC DESIGNATION : INDIRECT

1987	AVG DAY	1	5 DA	Y BOD		l	SUSPEN	DED SOLI	DS	1	TOTAL PHO	SPHORUS
	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	0.788	85.0	ND		ND	72.0	ND		ND	   8.8	ND	ND
FEB	0.853	127.0	ND		ND	141.0	ND		ND	1 4.6	ND	ND
MAR	0.804	149.0	ND		ND	291.0	ND		ND	5.3	ND	ND
APR	0.669	216.0	ND		ND	295.0	ND		ND	6.0	ND	ND
MAY	0.499	235.0	ND		ND	420.0	ND		ND	10.1	ND	ND
JUN	0.536	256.0	ND		ND	424.0	ND		ND	7.0	ND	ND
JUL	0.542	363.0	ND		ND	447.0	ND		ND	13.3	ND	ND
AUG	0.470	591.0	ND		ND	463.0	ND		ND	9.2	ND	ND
SEP	0.460	749.0	ND		ND	982.0	ND		ND	26.0	ND	ND
OCT	0.450	296.0	ND		ND	412.0	ND		ND	112.3	ND	ND
NOV	0.460	79.0	ND		ND	75.0	ND		ND	1 4.6	ND	ND
DEC	0.520	270.0	ND		ND	666.0	ND		ND	10.3	ND	ND
	l .									!		
AVERA	GE: 0.588	285.0	0.0		0.000	391.0	0.0		0.000	l   9.8	0.0	0.00
OBSER\	VATIONS:12	12	0			12	0			1 12	0	
EXCEE	DANCES	i				ĺ				1		
NO OF	SAMPLES	12	0			1 12	0			1 12	0	

COMPLIANCE :

CRITERIA :

NOTE :

BOD - NO DISCHARGE BOD - 30 mg/l

SS - NO DISCHARGE SS - 40 mg/l TP - NO DISCHARGE

TP - 1.0 mg/l

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

\* - EXCEEDS EFFLUENT CRITERIA

ND - NO DATA

REMEDIAL MEASURES

START DATE END DATE

ANTICIPATED COMPLIANCE

MUNICIPALITY : MC GILLIVRAY

PLANT : PARKHILL LAGOON

WORKS NUMBER : 110002461

TREATMENT : CONVENTIONAL LAGOON SEASONAL

PHOSPHORUS REMOVAL - BATCH

REGION

: SOUTHWEST

DISTRICT

: LONDON NORTH

OPERATING AUTHORITY : MINISTRY

MAJOR BASIN

WATERCOURSE : PARKHILL CREEK

MINOR BASIN

: GREAT LAKES

: LAKE HURON

INDIRECT

DESIGN CAPACITY : 1.10 1000 m3

POPULATION SERVED : 1375

IJC	DESIGNATION	: "

	1		1										
1987	AV	DAY	1	5 DA	Y BOD		1	SUSPEN	DED SOLI	DS	1	TOTAL PHO	SPHORUS
	FI	LOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000	0 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	1	0.681	128.0	ND			1 171.0	ND			8.6	ND	
FEB	ĺ	1.305	144.0	ND			198.0	ND			7.8	ND	
MAR	İ	1.026	79.0	ND			117.0	ND			4.1	ND	
APR	1	0.917	86.0	18.5			108.0	36.8			4.7	0.8	
MAY	1	0.487	166.0	ND			180.0	ND			9.6	ND	
JUN	1	0.567	179.0	ND			162.0	ND			6.2	ND	
JUL	1	0.516	146.0	ND			227.0	ND			8.7	ND	
AUG	1	0.516	115.0	ND			88.0	ND			7.1	ND	
SEP	1	0.592	165.0	ND			161.0	ND			6.3	ND	
OCT	1	0.582	160.0	3.6			143.0	9.0			8.2	0.3	
NOV	1	0.624	112.0	ND			113.0	ND			5.8	ND	
DEC	1	0.757	152.0 	ND			103.0	ND			8.0	ND	
AVERA	GE:	0.714	1 136.0	11.1		9.530	1 148.0	22.9		19.492	,   7.1	0.6	0.481
OBSER	VATION DANCES	IS:12	1 12	2		7.230	1 12	2		17.472	12	2	0.461
NO OF			1 12	7			1 12	7			1 12	7	

COMPLIANCE : CRITERIA :

NOTE :

BOD - YES SS - YES

TP - YES

BOD - 30 mg/l

SS - 40 mg/l TP - 1.0 mg/l

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

\* - EXCEEDS EFFLUENT CRITERIA

ND - NO DATA

ANTICIPATED

REMEDIAL MEASURES

START DATE END DATE

COMPLIANCE

ENGINEERING STUDY PHASE

88/09/01 89/09/30

MUNICIPALITY : MEAFORD PLANT : MEAFORD WPCP

WORKS NUMBER : 110000445 TREATMENT : HIGH RATE REGION : SOUTHWEST

DISTRICT : OWEN SOUND OPERATING AUTHORITY : MINISTRY WATERCOURSE : GEORGIAN BAY

MAJOR BASIN : GREAT LAKES MINOR BASIN : LAKE HURON IJC DESIGNATION : DIRECT

DESIGN CAPACITY : 3.90 1000 m3

POPULATION SERVED : 4159

1987	AVG DAY	- 1		5 DA	Y BOD		l	SUSPEN	DED SOLI	DS	1 :	TOTAL PHO	SPHORUS
	FLOW	1	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/c	b	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	2.862	: ¦	42.0	10.8		30.910	   102.0	7.2		20.606	   3.3	1.9	5.409
FEB	2.714		43.0	ND		ND	71.0	ND		ND	3.1	ND	ND
MAR	3.793	1	47.0	15.4		58.412	59.0	8.5		32.241	2.9	1.8	6.86
APR	3.053	1	48.0	22.2		67.777	61.0	14.1		43.047	2.8	2.5	7.57
MAY	2.653	1	58.0	14.9		39.530	87.0	17.2		45.632	3.4	2.7	7.084
JUN	2.805		57.0	8.0		22.440	133.0	5.3		14.867	5.4	2.6	7.34
JUL	2.650	1	23.0	7.3		19.345	54.0	8.9		23.585	2.5	2.0	5.24
AUG	2.592	: [	49.0	5.9		15.293	104.0	2.6		6.739	5.7	2.9	7.49
SEP	2.651	١	52.0	10.0		26.510	88.0	8.9		23.594	\$6	3.9	10.28
OCT	2.732	!	68.0	16.0		43.712	116.0	8.3		22.676	3.8	3.6	9.83
NOV	3.050	1	84.0	11.9		36.295	100.0	7.5		22.875		3.1	9.57
DEC	2.918 	3   	46.0	13.9		40.560	52.0	5.1		14.882	3.0 	1.6	4.64
AVERA	GE: 2.873	- T	51.0	12.4	7,7	36.435	86.0	8.5		24.613	3.8	2.6	7.396
	VATIONS:12 DANCES		12	11			12	11			12	11	
	SAMPLES	i	23	19			23	19			24	19	

COMPLIANCE : CRITERIA : NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

BOD - YES BOD - 25 mg/l TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - YES SS - 25 mg/l \* - EXCEEDS EFFLUENT CRITERIA

TP - YES TP - NONE ND - NO DATA

ANTICIPATED REMEDIAL MEASURES

START DATE END DATE COMPLIANCE

TREATMENT : EXTENDED AERATION WATERCOURSE : OTTER CREEK

PHOSPHORUS REMOVAL-CONTINUOUS MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE HURON

DESIGN CAPACITY : 0.96 1000 m3 IJC DESIGNATION : INDIRECT

POPULATION SERVED: 885

1987	AVG DAY	ĺ	5 DA	Y BOD		1	SUSPEN	DED SOLI	DS	1 '	TOTAL PHO	SPHORUS
	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	0.397	1 130.0	4.2		1.667	   171.0	7.6		3.017	   7.8	0.7	0.282
FEB	0.355	168.0	3.6		1.278	252.0	5.8		2.059	OF 11 10 10 10 10	0.4	0.153
MAR	0.508	77.0	3.3		1.676	121.0	2.9		1.473	5.0	0.3	0.168
APR	0.453	130.0	2.2		0.997	209.0	7.4		3.352	7.9	0.6	0.267
MAY	0.362	126.0	1.8		0.652	212.0	5.5		1.991	8.0	0.7	0.246
JUN	0.408	99.0	1.6		0.653	171.0	4.6		1.877	7.5	0.7	0.269
JUL	0.419	86.0	1.6		0.670	204.0	2.8		1.173	6.8	0.5	0.226
AUG	0.437	56.0	1.6		0.699	105.0	3.4		1.486	4.8	0.7	0.293
SEP	0.410	114.0	1.6		0.656	187.0	5.3		2.173	9.8	0.8	0.324
OCT	0.422	151.0	2.4		1.013	210.0	1.8		0.760	7.4	0.4	0.181
NOV	0.546	60.0	3.7		2.020	103.0	8.2		4.477	3.8	0.6	0.349
DEC	0.604 	133.0 	4.9		2.960	76.0 	10.5		6.342	3.8 	0.7	0.405
AVERA	GE: 0.443	111.0	2.7		1.245	1 168.0	5.5		2.515	1 6.7	0.6	0.264
	VATIONS:12 DANCES	1 12	12			   12 	12			12 	12	- 1.201
NO OF	SAMPLES	25	25			25	25			l 25	25	

COMPLIANCE : CRITERIA : NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
BOD - YES BOD - 25 mg/l TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - YES SS - 25 mg/L \* - EXCEEDS EFFLUENT CRITERIA

TP - YES TP - 1.0 mg/L ND - NO DATA

REMEDIAL MEASURES START DATE END DATE COMPLIANCE

MUNICIPALITY : MILVERTON PLANT

: MILVERTON LAGOON

WORKS NUMBER : 110001079

TREATMENT : CONVENTIONAL LAGOON SEASONAL

AERATED CELL PLUS LAGOON

PHOSPHORUS REMOVAL - CONTINUOUS

DESIGN CAPACITY : 1.01 1000 m3

POPULATION SERVED: 1484

REGION

: SOUTHWEST

DISTRICT : LONDON NORTH

OPERATING AUTHORITY : MUNICIPAL

WATERCOURSE

: BOYLE DRAIN

MAJOR BASIN

: GREAT LAKES

MINOR BASIN

: LAKE HURON

IJC DESIGNATION

: INDIRECT

1987	A	VG DAY	1	5 DA	Y BOD		ĺ	SUSPEN	DED SOLI	DS	i	TOTAL PHO	SPHORUS
	1	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(10	00 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d
JAN	i	0.655	196.0	ND			213.0	ND			  10.0	ND	
FEB	l	0.549	158.0	ND			246.0	ND			8.8	ND	
MAR	1	0.862	101.0	ND			170.0	ND			7.5	ND	
APR	1	0.645	120.0	ND			143.0	ND			8.0	ND	
MAY	ļ	0.528	154.0	ND			173.0	ND			9.1	ND	
JUN	1	0.497	162.0	ND			209.0	ND			5.3	ND	
JUL	1	0.694	78.0	ND			110.0	ND			5.1	ND	
AUG	1	0.584	149.0	ND			160.0	ND			7.2	ND	
SEP	1	0.563	284.0	ND			224.0	ND			10.8	ND	
OCT	l	0.661	ND	ND			ND	ND			ND	ND	
NOV	I	0.836	151.0	5.5			163.0	19.0			8.5	0.3	
DEC	1 	0.749	94.0 	ND			80.0 	ND			6.1 	ND	
AVERA	GE:	0.652	150.0	5.5		4.598	172.0	19.0		15.884	7.9	0.3	0.268
OBSER!		ONS:12 ES	11 	1			j 11 I	1		7 50	11	1	0.20
NO OF	SAME	PLES	21	4			21	4			21	4	

COMPLIANCE :

CRITERIA :

NOTE :

BOD - YES

BOD - 30 mg/t

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - YES TP - YES

SS - 40 mg/l TP - 1.0 mg/l

\* - EXCEEDS EFFLUENT CRITERIA

ND - NO DATA

ANTICIPATED

REMEDIAL MEASURES

START DATE END DATE

COMPLIANCE

DISTRICT MUNICIPALITY : MITCHELL : SOUTHWEST PLANT : MITCHELL LAGOON : LONDON NORTH

WORKS NUMBER : 110000472 OPERATING AUTHORITY : MINISTRY

TREATMENT : CONVENTIONAL LAGOON SEASONAL WATERCOURSE : THAMES RIVER

MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ERIE PHOSPHORUS REMOVAL - CONTINUOUS

3.56 1000 m3 IJC DESIGNATION : INDIRECT DESIGN CAPACITY :

POPULATION SERVED: 2880

1987	A\	/G DAY	1	5 DA	Y BOD		1	SUSPEN	DED SOLI	DS	1 1	TOTAL PHO	SPHORUS
		LOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(100	00 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	1	1.848	422.0	ND			765.0	ND			114.5	ND	
FEB	l	1.543	597.0	ND			666.0	ND			116.4	ND	
MAR	ĺ	3.210	396.0	ND			309.0	ND			8.1	ND	
APR	1	2.738	904.0	24.8			61.0	89.8			4.6	0.6	
MAY	l	1.509	1732.0	ND			860.0	ND			30.8	ND	
JUN	l	1.460	1485.0	ND			743.0	ND			26.6	ND	
JUL	l	1.537	467.0	ND			520.0	ND			12.3	ND	
AUG	I	1.504	620.0	ND			452.0	ND			21.2	ND	
SEP	I	1.490	1069.0	ND			616.0	ND			24.8	ND	
OCT	1	1.756	ND	ND			ND	ND			ND	ND	
NOV	l	2.490	269.0	ND			222.0	ND			9.0	ND	
DEC	l 1	3.310	595.0 	ND			366.0 	ND			11.6 	ND	
AVERA	GE:	2.033	778.0	24.8		67.902	507.0	89.8 *		245.872	116.4	0.6	1.615
OBSER EXCEE		NS:12	j 11	1			11	1			j 11 I	1	
NO OF	SAME	PLES	30	4			30	4			1 30	4	

COMPLIANCE : CRITERIA : NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

BOD - YES BOD - 30 mg/l TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - 40 mg/l SS - NO \* - EXCEEDS EFFLUENT CRITERIA

TP - YES TP - 1.0 mg/l ND - NO DATA

ANTICIPATED REMEDIAL MEASURES START DATE END DATE COMPLIANCE

COLLECTION SYSTEM INPUT MONITORING EXISTING EQUIPMENT/OPERATION IS BEING MODIFIED REMEDIAL MEASURES BEING EVALUATED

MUNICIPALITY : MOORE

PLANT : BRIGDEN P.V. LAGOON

WORKS NUMBER : 110002023

TREATMENT : CONVENTIONAL LAGOON ANNUAL

PHOSPHORUS REMOVAL - BATCH

REGION : SOUTHWEST DISTRICT

: SARNIA OPERATING AUTHORITY : MINISTRY

WATERCOURSE : BEAR CREEK

MAJOR BASIN

: GREAT LAKES

MINOR BASIN

: LAKE ERIE

IJC DESIGNATION : INDIRECT

DESIGN CAPACITY :

0.33 1000 m3

POPULATION SERVED : 683

1987	AV	G DAY	1	5 DA	Y BOD		1	SUSPEN	DED SOLI	DS	1 1	TOTAL PHO	SPHORUS
	F	LOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(100	0 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	! !	0.186	212.0	ND			1 118.0	ND			110.4	ND	
FEB	1	0.182	ND	ND			ND	ND			ND	ND	
MAR	l	0.188	157.0	ND			181.0	ND			9.6	ND	
APR	1	0.208	134.0	ND			135.0	ND			8.1	ND	
MAY	1	0.165	176.0	3.6			150.0	6.5			9.9	0.2	
JUN	l	0.175	178.0	ND			196.0	ND			9.5	ND	
JUL	l	0.155	177.0	ND			228.0	ND			111.8	ND	
AUG	l	0.177	176.0	ND			122.0	ND			5.5	ND	
SEP	l	0.171	728.0	ND			96.0	ND			10.7	ND	
OCT	l	0.287	175.0	2.9			123.0	2.3			8.6	0.3	
NOV	1	0.226	243.0	ND			153.0	ND			9.1	ND	
DEC	 	0.254	190.0 	ND			171.0 	ND			9.6	ND	
AVERA	GE:	0.198	232.0	3.3		0.713	   152.0	4.4		0.867	1 9.3	0.2	0.055
OBSER'		NS:12 S	1 11	2			j 11	2			11	2	0.05.
NO OF	SAMP	LES	17	9			17	9			1 17	9	

COMPLIANCE :

CRITERIA :

NOTE :

BOD - YES SS - YES

TP - YES

BOD - 30 mg/l

SS - 40 mg/l

TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

\* - EXCEEDS EFFLUENT CRITERIA

TP - 1.0 mg/l ND - NO DATA

> ANTICIPATED COMPLIANCE

REMEDIAL MEASURES

START DATE END DATE

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

ENGINEERING STUDY PHASE

88/03/01 89/09/30

REGION DISTRICT MUNICIPALITY : MOORE : SOUTHWEST PLANT : CORUNNA P.V. WPCP : SARNIA

WORKS NUMBER : 110000481

TREATMENT : EXTENDED AERATION PHOSPHORUS REMOVAL - CONTINUOUS

OPERATING AUTHORITY : MINISTRY

WATERCOURSE : ST. CLAIR RIVER

MAJOR BASIN : GREAT LAKES MINOR BASIN : LAKE ERIE

IJC DESIGNATION : DIRECT DESIGN CAPACITY : 4.54 1000 m3

POPULATION SERVED : 5590

1987	AVG DAY	1	5 DA	Y BOD		1	SUSPEN	DED SOLI	DS	1 1	TOTAL PHO	SPHORUS
	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	l I 2.193	132.0	7.0		15.351	l l 155.0	9.2		20.176	1 7.4	0.5	0.987
FEB	2.042	1 120.0	18.0			198.0	12.2		24.912	W + 8 0	0.5	0.919
MAR	2.052	163.0	8.5		17.442	213.0	10.8		22.162	8.3	0.5	1.047
APR	2.297	94.0	5.0		11.485	108.0	5.6		12.863	7.8	0.3	0.689
MAY	2.020	192.0	12.1		24.442	231.0	7.1		14.342	9.8	0.5	0.949
JUN	2.269	1 124.0	6.6		14.975	128.0	5.9		13.387	0.7	0.5	1.135
JUL	2.381	110.0	3.0		7.143	111.0	8.0		19.048	6.2	0.3	0.714
AUG	2.106	86.0	4.3		9.056	40.0	2.9		6.107	5.7	0.3	0.569
SEP	2.097	131.0	4.1		8.598	149.0	4.7		9.856	7.8	0.4	0.839
OCT	2.026	171.0	4.6		9.320	210.0	6.2		12.561	9.4	0.4	0.790
NOV	2.123	98.0	4.1		8.704	89.0	6.7		14.224	5.9	0.3	0.679
DEC	2.552 	86.0 	6.5		16.588	68.0 	10.1		25.775	7.5 	0.2	0.587
AVERA	GE: 2.180	1 126.0	7.0		14.988	1 142.0	7.5		16.284	7.0	0.4	0.825
	VATIONS:12 DANCES	1 12	12			12	12			12	12	
	SAMPLES	22	23			22	23			   22	279	

COMPLIANCE : CRITERIA : NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

BOD - YES TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - YES \* - EXCEEDS EFFLUENT CRITERIA

TP - YES

ANTICIPATED

REMEDIAL MEASURES START DATE END DATE COMPLIANCE

MUNICIPALITY : MOORE

PLANT : COURTRIGHT WPCP

WORKS NUMBER : 110001818

TREATMENT : EXTENDED AERATION

PHOSPHORUS REMOVAL - CONTINUOUS

REGION

: SOUTHWEST

DISTRICT

: SARNIA

OPERATING AUTHORITY : MINISTRY

WATERCOURSE

: ST CLAIR RIVER

MAJOR BASIN

: GREAT LAKES

MINOR BASIN

: LAKE ERIE

DESIGN CAPACITY :

0.68 1000 m3

POPULATION SERVED: 1480

IJC DESIGNATION

: DIRECT

1987	A	VG DAY	1	5 DA	Y BOD		1	SUSPEN	DED SOLI	DS	1 1	TOTAL PHO	SPHORUS
	1	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(100	00 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	1	0.506	1 130.0	8.2		4,149	   145.0	14.1		7.135	163	0.5	0.253
FEB	i	0.629	I ND	ND		ND	l ND	ND		ND	I ND	0.4	0.233
MAR	i	0.586	191.0	4.9			332.0	20.4		11.954	Nestitio	0.8	0.45
APR	İ	0.624	123.0	5.7		3.557	154.0	12.7			7.2	0.3	0.18
MAY	1	0.441	214.0	3.6		1.588	269.0	5.4		2.381	6.9	0.4	0.159
JUN	1	0.403	113.0	7.5		3.023	111.0	5.5		2.217	6.4	0.2	0.09
JUL	1	0.671	104.0	21.0		14.091	143.0	10.0		6.710	7.2	0.4	0.24
AUG	1	0.493	161.0	14.1		6.951	236.0	8.7		4.289	7.6	0.5	0.22
SEP	1	0.567	126.0	19.1		10.830	19.0	20.3		11.510	7.4	0.5	0.26
OCT	1	1.026	108.0	9.9		10.157	127.0	19.3		19.802	7.6	0.7	0.66
NOV	1	1.250	142.0	10.2		12.750	173.0	19.1		23.875	8.8	0.3	0.37
DEC	1	1.065	125.0 	12.9		13.739	124.0 	17.4		18.531	8.1 	0.2	0.25
AVERA	GE:	0.688	1 140.0	10.6		7.610	167.0	13.9		10.575	1 7.3	0.4	0.28
OBSER EXCEE		ONS:12 ES	11 	11			i 11	11		2000 0.75(1.00)	11	12	-
NO OF	SAMI	PLES	1 19	21			19	21			20	247	

COMPLIANCE :

CRITERIA:

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

BOD - 25 mg/l SS - YES SS - 25 mg/l \* - EXCEEDS EFFLUENT CRITERIA

TP - 1.0 mg/l TP - YES ND - NO DATA

ANTICIPATED

REMEDIAL MEASURES

BOD - YES

START DATE END DATE

COMPLIANCE

MUNICIPALITY : NORMANBY REGION : SOUTHWEST PLANT : NEUSTADT LAGOON DISTRICT : OWEN SOUND WORKS NUMBER : 110002443 OPERATING AUTHORITY : MINISTRY

TREATMENT : CONVENTIONAL LAGOON SEASONAL WATERCOURSE : SOUTH SAUGEEN RIVER

> PHOSPHORUS REMOVAL - BATCH MAJOR BASIN MINOR BASIN : GREAT LAKES : LAKE HURON

DESIGN CAPACITY : 0.41 1000 m3 IJC DESIGNATION : INDIRECT

POPULATION SERVED : 400

						10						
AV	G DAY	ì	5 DA	Y BOD		i	SUSPEN	DED SOLI	DS	1	TOTAL PHO	SPHORUS
F	LOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
(100	0 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
l I	0.132	   191.0	ND			1 230 0	MD	# 30.VC		111.7	ND	
i	0.112	146.0	ND			THE REPORT OF THE PARTY NAMED OF	500.E21			Ž	1000000	
i	0.182	106.0	ND			142.0	ND			10 may 1992	ND	
1	0.149	80.0	ND			139.0	ND			7.5	ND	
l	0.098	158.0	ND			200.0	ND			8.9	ND	
l	0.084	196.0	ND			294.0	ND			112.0	ND	
l	0.089	129.0	ND			197.0	ND			110.8	ND	
l	0.098	152.0	ND			225.0	ND			13.0	ND	
l	0.085	145.0	ND			210.0	ND			9.7	ND	
l	0.102	163.0	ND			231.0	ND			10.3	ND	
1	0.181	58.0	0.9			81.0	7.4			4.6	0.7	
l I	0.187	94.0 	ND			115.0 	ND			5.7	ND	
GE:	0.125	135.0	0.9		0.163	191.0	7.4		1.339	1 9.2	0.7	0.121
		12 	1			12 	1			12 	1	320 TV 1 TU 1
SAMPI	LES	I 25	10			25	10			25	10	
	F   (100	0.182   0.149   0.098   0.084   0.089   0.098   0.085   0.102   0.181   0.187	FLOW   INF   (1000 m3/d)   (mg/L)	FLOW   INF EFF   (1000 m3/d)   (mg/L) (mg/L) (mg/L)	FLOW   INF EFF   (1000 m3/d)   (mg/L) (mg/L) (%REM)	FLOW   INF	FLOW   INF	FLOW	FLOW   INF	FLOW	FLOW	FLOW

COMPLIANCE : CRITERIA : NOTE :

> BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS BOD - YES BOD - 30 mg/l TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - 40 mg/l SS - YES \* - EXCEEDS EFFLUENT CRITERIA

TP - YES TP - 1.0 mg/l ND - NO DATA

ANTICIPATED REMEDIAL MEASURES START DATE END DATE COMPLIANCE

UNDER DISCUSSION WITH MUNICIPALITY

MUNICIPALITY : NORWICH

: NORWICH LAGOON

REGION

: SOUTHWEST

PLANT

DISTRICT

: LONDON NORTH

WORKS NUMBER : 110001480

OPERATING AUTHORITY : MINISTRY

TREATMENT : CONVENTIONAL LAGOON SEASONAL

WATERCOURSE

: BIG OTTER CREEK

PHOSPHORUS REMOVAL - CONTINUOUS

MAJOR BASIN MINOR BASIN

: GREAT LAKES : LAKE ERIE

DESIGN CAPACITY :

0.99 1000 m3

POPULATION SERVED :

2156

IJC DESIGNATION : INDIRECT

1987	AV	G DAY	1	5 DA	Y BOD		1	SUSPEN	DED SOLI	DS	į ·	TOTAL PHO	SPHORUS
		LOW	INF	EFF	48mm	LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	1 100	0 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	i	0.849	121.0	ND			226.0	ND			1 4.6	ND	
FEB	1	0.667	120.0	ND			203.0	ND			6.9	ND	
MAR	l	0.925	230.0	ND			348.0	ND			5.1	ND	
APR		1.156	168.0	29.9			395.0	29.2			1 4.6	0.5	
MAY	1	0.628	222.0	36.0			335.0	29.2			9.8	0.5	
JUN	1	0.585	262.0	ND			295.0	ND			113.2	ND	
JUL	1	0.538	253.0	ND			170.0	ND			8.7	ND	
AUG	l	0.576	177.0	ND			105.0	ND			110.0	ND	
SEP	l	0.567	254.0	ND			293.0	ND			10.3	ND	
OCT	1	0.571	ND	ND			ND	ND			ND	ND	
NOV	l	0.719	230.0	9.1			422.0	5.9			8.0	0.4	
DEC	 	0.999	186.0 	ND			307.0 	ND			6.2	ND	
AVERA	GE:	0.732	   202.0	25.0		21.238	1 282.0	21.4		18.778	1 7.9	0.4	0.373
OBSER			11 	3			11	3			111	3	0.373
NO OF	SAMP	LES	1 11	3			11	3			1 11	3	

COMPLIANCE :

CRITERIA :

NOTE :

BOD - YES

BOD - 30 mg/l

TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - YES

SS - 40 mg/l

\* - EXCEEDS EFFLUENT CRITERIA

TP - YES

TP - 1.0 mg/l

ND - NO DATA

ANTICIPATED

REMEDIAL MEASURES

START DATE END DATE

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

COMPLIANCE

MUNICIPALITY : OIL SPRINGS

PLANT : OIL SPRINGS LAGOON

WORKS NUMBER : 110001998

TREATMENT : CONVENTIONAL LAGOON ANNUAL

PHOSPHORUS REMOVAL - BATCH

DISTRICT

: SOUTHWEST

: SARNIA

WATERCOURSE

OPERATING AUTHORITY : MINISTRY

MAJOR BASIN

: BLACK CREEK : GREAT LAKES

MINOR BASIN

: LAKE ERIE

DESIGN CAPACITY : 0.27 1000 m3

IJC DESIGNATION : INDIRECT

POPULATION SERVED: 609

1987	AVG DAY	!	5 DA	Y BOD		1	SUSPEN	DED SOLI	DS	1 1	TOTAL PHO	SPHORUS
	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	0.169	   138.0	ND			1 111.0	ND			8.5	ND	
FEB	0.157	171.0	ND			243.0	ND			9.7	ND	
MAR	0.182	132.0	ND			153.0	ND			8.8	ND	
APR	0.186	102.0	20.0			103.0	41.4			6.2	0.4	
YAM	0.155	156.0	25.7			111.0	172.1			10.3	1.0	
JUN	0.153	142.0	ND			105.0	ND			8.3	ND	
JUL	0.147	137.0	ND			70.0	ND			7.6	ND	
AUG	0.152	160.0	ND			122.0	ND			7.7	ND	
SEP	0.158	130.0	ND			85.0	ND			8.5	ND	
DCT	0.178	109.0	3.8			99.0	12.1			7.6	0.3	
VOV	0.186	97.0	ND			72.0	ND			8.1	ND	
DEC	0.220	102.0 	ND			83.0 	ND			7.0	ND	
AVERA	GE: 0.170	131.0	16.5		2.793	113.0	75.2 *		12.176	1 8.2	0.6	0.097
	VATIONS:12	1 12	3			12	3			12	3	
	DANCES		7				7/27				_	
U UF	SAMPLES	23	3			23	3			23	3	

COMPLIANCE :

CRITERIA :

NOTE :

BOD - YES SS - NO

TP - YES

BOD - 30 mg/l

SS - 40 mg/l

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

\* - EXCEEDS EFFLUENT CRITERIA

TP - 1.0 mg/l ND - NO DATA

ANTICIPATED

REMEDIAL MEASURES

START DATE END DATE

COMPLIANCE

UNDER DISCUSSION WITH MUNICIPALITY

MUNICIPALITY : OWEN SOUND PLANT : OWEN SOUND WPCP

WORKS NUMBER : 110000551 TREATMENT : PRIMARY

PHOSPHORUS REMOVAL - CONTINUOUS

DISTRICT SOUTHWEST : OWEN SOUND OPERATING AUTHORITY : MINISTRY

WATERCOURSE

: GEORGIAN BAY

MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE HURON

DESIGN CAPACITY :

24.54 1000 m3

POPULATION SERVED: 20000

IJC DESIGNATION : DIRECT

1987	AVG DAY	1	5 DA	Y BOD		1	SUSPEN	DED SOLI	DS	1 1	TOTAL PHO	SPHORUS
	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	   21.732	   73.0	37.3	49	810.604	   98.0	18.2	81	395.522	138	0.7	15.430
FEB	14.893	1 56.0	32.3	42	481.044	97.0	23.6	76	351.475		0.7	10.87
MAR	21.852	62.0	23.8	62	520.078	94.0	18.9	80	413.003	20/524	0.6	12.67
APR	17.593	69.0	13.4	81	235.746	92.0	19.7	79	346.582	2.9	0.8	13.19
MAY	9.356	78.0	25.6	67	239.514	120.0	21.8	82	203.961	4.6	0.5	4.95
JUN	9.525	100.0	22.1	78	210.503	119.0	25.3	79	240.983	3.8	0.5	4.57
JUL	9.454	50.0	19.2	62	181.517	107.0	20.5	81	193.807	1 4.7	0.7	6.61
AUG	10.728	112.0	26.8	76	287.510	130.0	21.9	83	234.943	5.5	0.7	7.83
SEP	11.019	68.0	22.4	67	246.826	117.0	24.2	79	266.660	4.8	0.8	8.26
OCT	14.453	71.0	22.1	69	319.411	132.0	19.4	85	280.388	4.1	0.6	8.38
NOV	18.149	83.0	55.0	34	998.195	116.0	18.7	84	339.386	1 4.4	0.6	10.70
DEC	17.692 	73.0 	36.0	51	636.912	102.0 	21.7	79	383.916	3.3 	1.2 *	20.87
AVERA	GE: 14.704	75.0	28.0	62	430.655	T   110.0	21.2	81	304.219	1 4.0	0.7	10.36
OBSER	VATIONS:12	1 12	12			12	12			1 12	12	10. Fig. 10. W.
EXCEE	DANCES	ĺ				1				Ì	1	
NO OF	SAMPLES	24	24			255	255			24	24	

COMPLIANCE :

CRITERIA:

NOTE :

BOD - YES

BOD - 50%

TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - YES

REMEDIAL MEASURES

SS - 70%

\* - EXCEEDS EFFLUENT CRITERIA ND - NO DATA

TP - NO TP - 1.0 mg/l

START DATE END DATE

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

88/01/31

ANTICIPATED

COMPLIANCE

COLLECTION SYSTEM INPUT MONITORING PROGRAM UNDER REVIEW

88/01/31

REGION DISTRICT MUNICIPALITY : PAISLEY : SOUTHWEST PLANT : PAISLEY WPCP : OWEN SOUND WORKS NUMBER : 110001907 OPERATING AUTHORITY : MINISTRY

WATERCOURSE TREATMENT : OXIDATION DITCH : SAUGEEN RIVER

> PHOSPHORUS REMOVAL - CONTINUOUS MAJOR BASIN : GREAT LAKES MAJOR BASIN : GREAT LAKE:
> MINOR BASIN : LAKE HURON

IJC DESIGNATION : INDIRECT DESIGN CAPACITY : 0.70 1000 m3
POPULATION SERVED : 653

POPUL	ATION SERVED	: 65										
1987	AVG DAY	l	5 DA	Y BOD		! }	SUSPEN	DED SOLI	DS	! [	TOTAL PHO	SPHORUS
	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	0.310	   145.0	7.9		2.449	204.0	6.9		2.139	6.2	1.8 *	0.567
FEB	0.295	76.0	4.0		1.180	87.0	12.8		3.776	3.9	1.9 *	0.569
MAR	0.406	76.0	9.0		3.654	113.0	17.4		7.064	5.4	2.6 *	1.03
APR	0.329	74.0	6.6		2.171	80.0	9.3		3.060	4.6	2.6 *	0.849
MAY	0.281	65.0	6.0		1.686	54.0	5.0		1.405	5.4	3.5 *	0.98
JUN	0.275	63.0	4.0		1.100	76.0	6.0		1.650	4.9	3.8 *	1.04
JUL	0.297	58.0	2.0		0.594	77.0	4.0		1.188	4.7	1.5 *	0.44
AUG	0.312	43.0	1.0		0.312	67.0	7.0		2.184	3.5	0.6	0.19
SEP	0.317	27.0	1.0		0.317	36.0	6.0		1.902	4.1	0.6	0.20
OCT	0.354	77.0	2.0		0.708	114.0	8.0		2.832	3.9	0.6	0.21
NOV	0.394	92.0	6.0		2.364	102.0	13.0		5.122	6.0	0.8	0.30
DEC	0.416 	77.0 	6.0		2.496	87.0 	13.0		5.408	4.9 	0.8	0.31
AVERA	GE: 0.332	73.0	4.6		1.586	91.0	9.0	-	3.144	1 4.8	1.8 *	0.56
OBSER	VATIONS:12	1 12	12			12	12			1 12	12	
EXCEE	DANCES	Ì				i				ĺ	7	
NO OF	SAMPLES	23	23			23	23			23	23	
		1				1				i		

COMPLIANCE : CRITERIA : NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

BOD - YES TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

BOD - 25 mg/l SS - 25 mg/l SS - YES \* - EXCEEDS EFFLUENT CRITERIA

TP - 1.0 mg/l ND - NO DATA TP - NO

ANTICIPATED

REMEDIAL MEASURES START DATE END DATE COMPLIANCE

EXISTING EQUIPMENT/OPERATION IS BEING REPAIRED 86/01/01 87/06/01

MUNICIPALITY : PETROLIA

PLANT

: PETROLIA WPCP + LAGOON

WORKS NUMBER: 110000579

TREATMENT : EXTENDED AERATION

PHOSPHORUS REMOVAL - CONTINUOUS

EFFLUENT POLISHING

DESIGN CAPACITY : 3.18 1000 m3

POPULATION SERVED: 4186

DISTRICT REGION : SOUTHWEST : SARNIA

OPERATING AUTHORITY : MINISTRY

WATERCOURSE : BEAR CREEK

MAJOR BASIN : GREAT LAKES

MINOR BASIN : LAKE ERIE IJC DESIGNATION : INDIRECT

1987	AVO	DAY	1	5 DA	Y BOD		l	SUSPEN	DED SOLI	DS	γ .	TOTAL PHO	SPHORUS
	FL	.OW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000	m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	į I	1.598	1 92.0	4.4		7.031	   82.0	7.3		44 775	Ţ.,	1201	
FEB	1	1.062	1 126.0	11.7			A second or	-		11.665		0.3	0.543
			The same of the sa	000 000		12.425	District of	10.2		10.832	8.5	0.5	0.478
MAR	l	1.111	81.0	0.9		1.000	44.0	8.3		9.221	0.3	0.0	0.033
APR	l	1.163	22.0	4.5		5.234	86.0	15.1		17.561	4.4	0.6	0.733
MAY		1.203	168.0	1.9		2.286	92.0	12.6		15.158	9.0	0.4	0.493
JUN	1	1.240	151.0	2.3		2.852	89.0	11.5		14.260	8.0	0.4	0.496
JUL	1	1.281	174.0	2.1		2.690	75.0	9.5		12.169	9.3	0.4	0.448
AUG	1	1.321	143.0	1.3		1.717	87.0	10.0		13.210	110.3	0.3	0.449
SEP	1	1.360	134.0	1.4		1.904	74.0	10.5		14.280		0.4	0.476
OCT	1	1.407	162.0	0.7		0.985	78.0	11.1		15.618	7.6	0.4	0.492
NOV	1	1.454	147.0	0.8		1.163	78.0	9.6		13.958	8.4	0.3	0.407
DEC		1.507	140.0 	1.0		1.507	74.0	10.1		15.221	6.8	0.2	0.332
AVERA	GE:	1.309	   128.0	2.8		3,399	81.0	10.5		13.596	1 7.2	0.7	0.440
	VATION	100000000000000000000000000000000000000	1 12	12		3.3//		1000		13.396	100000000	0.3	0.448
	DANCES		"	12			12 	12			12 	12	
NO OF	SAMPL	ES	54	52			204	205			54	71	

COMPLIANCE :

BOD - YES

SS - YES

REMEDIAL MEASURES

CRITERIA :

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

\* - EXCEEDS EFFLUENT CRITERIA

BOD - 25 mg/l SS - 25 mg/l TP - YES TP - 1.0 mg/l ND - NO DATA

ANTICIPATED

START DATE END DATE

COMPLIANCE

MUNICIPALITY : PLYMPTON REGION : SOUTHWEST DISTRICT PLANT : WYOMING WPCP : SARNIA WORKS NUMBER: 110002489 OPERATING AUTHORITY : MINISTRY

TREATMENT : EXTENDED AERATION WATERCOURSE : STONEHOUSE DRAIN

MAJOR BASIN : GREAT LAKES MINOR BASIN : LAKE ERIE PHOSPHORUS REMOVAL - CONTINUOUS EFFLUENT POLISHING DESIGN CAPACITY : 1.12 1000 m3 IJC DESIGNATION : INDIRECT

POPULATION SERVED: 1740

1987	AVG DAY	1	5 DA	Y BOD		1	SUSPEN	DED SOLI	DS	1	TOTAL PHO	SPHORUS
	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d
JAN	0.495	72.0	8.4		4.158	80.0	13.0		6.435	6.7	0.3	0.139
FEB	0.465	179.0	16.1		7.487	117.0	10.0		4.650	10.6	0.5	0.22
MAR	0.496	114.0	11.5		5.704	106.0	13.7		6.795	9.2	0.3	0.134
APR	0.537	99.0	5.9		3.168	89.0	9.7		5.209	6.7	0.5	0.26
MAY	0.573	145.0	0.7		0.401	58.0	18.3		10.486	9.7	0.1	0.069
JUN	0.648	173.0	2.6		1.685	87.0	9.8		6.350	111.6	0.2	0.13
JUL	0.709	200.0	1.6		1.134	74.0	9.1		6.452	10.8	0.1	0.07
AUG	0.860	154.0	1.6		1.376	70.0	9.0		7.740	9.9	1.7 *	1.47
SEP	1.032	99.0	1.0		1.032	69.0	9.0		9.288	11.0	0.2	0.18
OCT	1.086	167.0	1.6		1.738	64.0	9.3		10.100	11.1	0.2	0.18
NOV	1.120	107.0	18.7		20.944	53.0	10.3		11.536	7.9	0.9	1.01
DEC	1.156 	74.0 	10.9		12.600	61.0 	10.4		12.022	6.7 	0.6	0.65
AVERA	GE: 0.765	132.0	6.7		5.119	77.0	11.0		8.089	9.3	0.5	0.38
	VATIONS:12 DANCES	12 	12			12 	12			12 	12 1	
NO OF	SAMPLES	25	24			187	187			25	42	

COMPLIANCE : CRITERIA : NOTE : BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

BOD - 25 mg/l 25 mg/l BOD - YES TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - YES \* - EXCEEDS EFFLUENT CRITERIA

TP - NO

TP - 1.0 mg/l ND - NO DATA

ANTICIPATED

REMEDIAL MEASURES START DATE END DATE COMPLIANCE

MARGINAL FAILURE-CONTINUE TO MAINTAIN AND MONITOR LEVEL OF FAILED PARAMETER

88/09/30

MUNICIPALITY : POINT EDWARD REGION : SOUTHWEST PLANT : POINT EDWARD WPCP DISTRICT : SARNIA WORKS NUMBER : 110000597

OPERATING AUTHORITY : MINISTRY TREATMENT : PRIMARY

WATERCOURSE : ST. CLAIR RIVER PHOSPHORUS REMOVAL - CONTINUOUS MAJOR BASIN : GREAT LAKES MINOR BASIN

: LAKE ERIE DESIGN CAPACITY : 2.59 1000 m3 IJC DESIGNATION : DIRECT

POPULATION SERVED : 2453

1987	A	VG DAY	ſ	5 DA	Y BOD		1	SUSPEN	DED SOLI	DS	1	TOTAL P	HOSPHORUS
	1	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(10	00 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d
JAN	l	2.300	   201.0	47.5	76	100 250	1 474 0	75 4	05		1		2 12
	!				1972	109.250		35.1	95	80.730	Will a server of the server	2.4 *	
FEB	!	1.900	83.0	OTTOR POTES	53	74.670	608.0	29.9	95	56.810	10.1	1.1 *	2.09
MAR	I	1.600	231.0		62	139.200	469.0	77.7	83	124.320	14.4	2.5 *	4.00
APR	1	1.800	247.0	81.6	67	146.880	1089.0	62.1	94	111.780	34.5	0.5	0.81
MAY	1	1.600	164.0	71.0	57	113.600	595.0	42.0	93	67.200	21.0	2.9 *	4.56
JUN	1	1.600	122.0	57.2	53	91.520	196.0	35.3	82	56.480	14.7	2.4 *	3.84
JUL	1	1.800	144.0	34.2	76	61.560	765.0	30.2	96	54.360	29.7	1.0	1.85
AUG	1	1.800	55.0	47.2	14	84.960	79.0	31.7	60	57.060	4.4	2.2 *	4.01
SEP		1.700	95.0	47.9	50	81.430	161.0	37.0	77	62.900	4.9	1.7 *	2.89
OCT	ı	1.600	124.0	61.7	50	98.720	192.0	34.1	82	54.560	7.2	2.0 *	3.20
NOV	l	1.590	152.0	72.0	53	114.480	485.0	53.0	89	84.270	26.1	2.6 *	4.13
DEC	 	1.600	202.0 	66.4	67	106.240	966.0 	69.4	93	111.040	19.5	1.2 *	1.98
VERA	GE:	1.741	   152.0	59.4	56	101.876	   523.0	44.8	87	76.793	117.7	1.9 *	3.23
OBSER	VATI	ONS:12	1 12	12	15050		1 12	12	O,	10.175	1 12	12	3.23
EXCEE			1	171,550			1				1 12	10	
NO OF	SAM	PLES	i 18	18			1 18	18			l l 18	58	
	1000077600										1 10	20	

COMPLIANCE : CRITERIA : NOTE :

> BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS BOD - YES

BOD - 50% TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - YES ss - 70% \* - EXCEEDS EFFLUENT CRITERIA

TP - NO TP - 1.0 mg/l ND - NO DATA

ANTICIPATED REMEDIAL MEASURES START DATE END DATE COMPLIANCE

UNDER DISCUSSION WITH MUNICIPALITY 86/01/01

EXISTING EQUIPMENT/OPERATION IS BEING MODIFIED

MUNICIPALITY : PORT BURWELL REGION : SOUTHWEST PLANT : PORT BURWELL WPCP DISTRICT : LONDON SOUTH

WORKS NUMBER: 110001319 OPERATING AUTHORITY : MINISTRY

TREATMENT : EXTENDED AERATION WATERCOURSE : BIG OTTER CR. - LAKE ERIE

> PHOSPHORUS REMOVAL - CONTINUOUS MAJOR BASIN : GREAT LAKES MINOR BASIN : LAKE ERIE

DESIGN CAPACITY : 0.52 1000 m3 IJC DESIGNATION : INDIRECT

POPULATION SERVED: 780

	1	1				1						
1987	AVG DAY	1	5 DA	Y BOD		1	SUSPEN	DED SOLI	DS	1	TOTAL PH	OSPHORUS
l	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
		1	W 1144				Charles DEC		78 20000	T		
JAN	0.183	157.0	1.2		0.220	172.0	12.5		2.288	8.6	0.5	0.099
FEB	0.154	222.0	4.2		0.647	608.0	8.0		1.232	111.4	0.4	0.054
MAR	0.160	206.0	3.9		0.624	199.0	6.4		1.024	111.6	0.3	0.054
APR	0.167	134.0	8.5		1.419	179.0	5.7		0.952	9.4	0.3	0.053
MAY	0.139	235.0	6.6		0.917	291.0	4.9		0.681	11.6	0.7	0.090
JUN	0.158	296.0	3.4		0.537	239.0	4.3		0.679	14.8	0.2	0.028
JUL	0.164	261.0	4.2		0.689	373.0	5.1		0.836	16.8	0.3	0.044
AUG	0.187	223.0	2.0		0.374	260.0	6.2		1.159	15.4	0.4	0.079
SEP	0.168	208.0	3.3		0.554	181.0	12.6		2.117	12.9	1.2 *	0.202
OCT	0.162	219.0	3.8		0.616	227.0	12.0		1.944	10.0	0.7	0.115
NOV	0.171	211.0	3.5		0.599	491.0	16.0		2.736	15.6	0.6	0.103
DEC	0.200	215.0	3.5		0.700	284.0	11.7		2.340	11.6	0.5	0.092
	<u> </u>	<u> </u>				<u> </u>				<u> </u>		
I   AVERA	GE: 0.168	l   216.0	4.0		0.658	l l 292.0	8.8		1.499	  12.5	0.5	0.084
OBSER	VATIONS:12	1 12	12			1 12	12			1 12	12	0.004
EXCEE	DANCES					1				'-	1	
NO OF	SAMPLES	I 20	21			i I 19	21			20	21	
i		i				i .,				1		

COMPLIANCE : CRITERIA : NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

BOD - YES BOD - 25 mg/l TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - YES SS - 25 mg/l \* - EXCEEDS EFFLUENT CRITERIA

TP - NO TP - 1.0 mg/l ND - NO DATA

ANTICIPATED REMEDIAL MEASURES START DATE END DATE COMPLIANCE

MARGINAL FAILURE-CONTINUE TO MAINTAIN AND MONITOR LEVEL OF FAILED PARAMETER 88/01/31

MUNICIPALITY : PORT ELGIN

PLANT : PORT ELGIN WPCP

WORKS NUMBER : 120001470

TREATMENT : OXIDATION DITCH

REGION

: SOUTHWEST

DISTRICT

: OWEN SOUND

WATERCOURSE

OPERATING AUTHORITY : MUNICIPAL

MAJOR BASIN

: SAUGEEN RIVER : GREAT LAKES

MINOR BASIN

: LAKE HURON

DESIGN CAPACITY : 6.45 1000 m3

6115

IJC DESIGNATION : INDIRECT

POPULATION SERVED :

1987	1	VG DAY	1	5 DA	Y BOD		I	SUSPEN	DED SOLI	DS	i i	TOTAL PHO	SPHORUS
	1	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(10	000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d
JAN	i	4.233	ND	ND		ND	l I ND	ND		ND	l ND	ND	ND
FEB	1	3.114	82.0	6.3		19.618	11.0	6.4		19.930	1 4.2	2.5	7.62
MAR	1	2.917	89.0	7.0		20.419	13.0	5.7		16.627	15.0	3.0	8.60
APR	1	2.912	143.0	6.8		19.802	219.0	7.9		23.005	7.8	2.5	7.13
MAY	1	3.641	179.0	2.2		8.010	238.0	4.4		16.020	6.6	0.4	1.34
JUN	1	4.224	96.0	1.4		5.914	140.0	6.6		27.878	4.2	1.0	4.22
JUL	1	4.629	90.0	1.8		8.332	124.0	7.7		35.643	4.7	0.5	2.22
AUG	1	4.223	101.0	1.1		4.645	175.0	5.1		21.537	5.7	0.7	2.91
SEP	ı	4.182	ND	ND		ND	ND ND	ND		ND	ND	ND	ND
ОСТ	1	44.346	108.0	6.2		274.945	8.0	5.4		239.468	6.9	0.8	35.92
NOV	1	4.964	336.0	26.0		129.064	119.0	7.6		37.726	4.3	0.9	4.56
DEC	l 1	5.757	ND 	ND		ND	ND 	ND		ND	ND	ND	ND
AVERA	GE:	7.429	   136.0	6.5		54.528	116.0	6.3		48.648	1 5.5	1.3	8.285
OBSER'		ONS:12	9 	9			9 	9			9	9	5.20.
NO OF	SAM	PLES	9	9			9	9			l I 9	9	

COMPLIANCE :

CRITERIA :

NOTE :

BOD - YES

BOD - 25 mg/l

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

START DATE END DATE

SS - YES SS - 25 mg/l

\* - EXCEEDS EFFLUENT CRITERIA

TP - YES TP - NONE ND - NO DATA

> ANTICIPATED COMPLIANCE

CONSTRUCTION COMPLETED

REMEDIAL MEASURES

87/03/31

87/12/31 87/03/30 1987

DEVELOPING NEW AND/OR IMPROVED METHODS OF DEALING WITH SLUDGE OPERATION AND/OR MAINENANCE PROCEDURES BEING IMPLEMENTED

88/06/31

1988

MUNICIPALITY : PORT STANLEY REGION

: SOUTHWEST PLANT : PORT STANLEY LAGOON DISTRICT : LONDON SOUTH OPERATING AUTHORITY : MINISTRY

WORKS NUMBER : 110001373

TREATMENT : CONVENTIONAL LAGOON SEASONAL WATERCOURSE : DITCH TO KETTLE CREEK

MAJOR BASIN MINOR BASIN PHOSPHORUS REMOVAL - BATCH : GREAT LAKES : LAKE ERIE

IJC DESIGNATION : INDIRECT DESIGN CAPACITY : 1.49 1000 m3

POPULATION SERVED : 1945

1987	A	VG DAY	1	5 DA	Y BOD		1	SUSPEN	DED SOLI	DS	1 1	TOTAL PHO	SPHORUS
	1	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(10	00 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN		1.260	131.0	ND			1 132.0	ND			5.3	ND	
FEB	1	1.070	37.0	ND			31.0	ND			2.5	ND	
MAR	1	1.130	58.0	ND			71.0	ND			3.8	ND	
APR	I	1.370	63.0	23.2			82.0	45.8			4.6	0.5	
MAY	1	1.300	259.0	14.5			185.0	21.5			6.0	0.8	
JUN	1	1.330	64.0	ND			75.0	ND			3.3	ND	
JUL	1	1.300	33.0	ND			56.0	ND			2.7	ND	
AUG	Į.	1.390	122.0	ND			140.0	ND			5.2	ND	
SEP	1	1.180	58.0	ND			66.0	ND			3.3	ND	
OCT	1	1.030	47.0	2.5			37.0	9.3			2.6	0.2	
NOV	1	1.050	91.0	8.4			75.0	14.0			4.3	0.4	
DEC	1	1.180	112.0 	5.1			91.0 	19.8			4.8 	0.3	
AVERA	GE:	1.216	90.0	10.7		13.609	87.0	22.1		27.668	1 4.0	0.4	0.510
OBSER EXCEE		ONS:12 ES	i 12	5			12 	5			12 	5	
NO OF	SAM	PLES	25	32			25	32			25	32	

COMPLIANCE : CRITERIA : NOTE :

> BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS BOD - YES

BOD - 30 mg/l TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - YES SS - 40 mg/l \* - EXCEEDS EFFLUENT CRITERIA

TP - YES TP - 1.0 mg/l ND - NO DATA

ANTICIPATED REMEDIAL MEASURES START DATE END DATE COMPLIANCE

ENGINEERING STUDY PHASE 88/03/01 89/09/30

MUNICIPALITY : RALEIGH-TILBURY EAST

PLANT : MERLIN PV LAGOON

WORKS NUMBER : 110000935

TREATMENT : CONVENTIONAL LAGOON ANNUAL

PHOSPHORUS REMOVAL - BATCH

REGION

: SOUTHWEST

DISTRICT

: WINDSOR

WATERCOURSE

OPERATING AUTHORITY : MINISTRY

: FOXTON DR. - JEANETTES CK

MAJOR BASIN

: GREAT LAKES

MINOR BASIN

: LAKE ERIE IJC DESIGNATION : INDIRECT

DESIGN CAPACITY : 0.46 1000 m3

POPULATION SERVED : 523

1987	A	VG DAY	l	5 DA	Y BOD		i	SUSPEN	DED SOLI	DS	i i	TOTAL PHO	SPHORUS
	1 1	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(100	00 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)		(kg/d)
JAN	1	0.186	146.0	ND			525.0	ND			5.5	ND	
FEB	1	0.186	241.0	ND			389.0	ND			10.1	ND	
MAR	1	0.175	251.0	ND			297.0	ND			10.7	ND	
APR	1	0.183	261.0	1.4			330.0	5.5			9.0	0.2	
MAY	1	0.114	193.0	ND			140.0	ND			8.2	ND	
JUN	1	0.137	170.0	ND			138.0	ND			6.4	ND	
JUL	1	0.149	193.0	ND			85.0	ND			9.5	ND	
AUG	1	0.140	672.0	ND			80.0	ND			14.5	ND	
SEP	1	0.147	310.0	ND			144.0	ND			10.3	ND	
OCT	1	0.158	293.0	ND			215.0	ND			7.9	ND	
NOV	1	0.167	239.0	5.4			216.0	100.2			111.2	0.7	
DEC	l l	0.177	235.0 	2.4			137.0 	170.3			9.9	0.8	
AVERA	GE:	0.160	267.0	3.1		0.528	225.0	92.0 *		15.961	1 9.4	0.5	0.095
OBSER EXCEE		ONS:12 Es	1 12	3			1 12	3		committee.	12	3	0.075
NO OF			12	4			1 12	4			1 12	4	

COMPLIANCE :

CRITERIA :

NOTE :

BOD - YES SS - NO

TP - YES

BOD - 30 mg/l

TP - 1.0 mg/l

SS - 40 mg/l

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

\* - EXCEEDS EFFLUENT CRITERIA

ND - NO DATA

REMEDIAL MEASURES

START DATE END DATE

ANTICIPATED COMPLIANCE

UNDER DISCUSSION WITH MUNICIPALITY

MUNICIPALITY : RIDGETOWN REGION : SOUTHWEST PLANT : RIDGETOWN LAGOON DISTRICT : WINDSOR WORKS NUMBER: 110001364 OPERATING AUTHORITY : MINISTRY

TREATMENT : CONVENTIONAL LAGOON SEASONAL WATERCOURSE : GAWNE DR TO MCGREGOR CK

> MAJOR BASIN PHOSPHORUS REMOVAL - CONTINUOUS : GREAT LAKES

MINOR BASIN : LAKE ERIE

DESIGN CAPACITY : 1.33 1000 m3 IJC DESIGNATION : INDIRECT

POPULATION SERVED : 3152

	T										T		
1987	A\	VG DAY	l	5 DA	Y BOD		1	SUSPEN	DED SOLI	DS	1	TOTAL PHO	SPHORUS
		FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(100	00 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d
JAN	i	1.000	   212.0	ND			1 260.0	ND			8.5	ND	
FEB	i	0.970	1 111.0	ND			220.0	ND			6.9	ND	
MAR	i	1.020	237.0	ND			283.0	ND			9.8	ND	
APR	Ì	1.100	119.0	23.5			185.0	26.6			6.7	0.5	
MAY	1	0.930	197.0	25.3			329.0	47.8			9.2	2.6 *	
JUN	1	0.850	199.0	ND			306.0	ND			9.6	ND	
JUL	1	0.802	137.0	ND			283.0	ND			9.2	ND	
AUG	1	0.863	170.0	ND			303.0	ND			10.5	ND	
SEP	1	0.917	233.0	ND			254.0	ND			8.4	ND	
OCT	1	0.919	163.0	ND			277.0	ND			9.1	ND	
NOV	1	0.943	147.0	47.4			176.0	81.2			9.4	1.5 *	
DEC	1	1.140	160.0 	ND			188.0 	ND			9.0	ND	
AVERA	GF:	0.955	   174.0	32.1 *		31 350	255.0	51.9 *		50.095	1 8.9	1 5 +	1.10
		ONS:12	1 12	3		31.337	1 12	3		50.095	1. CESSON 2.7	1.5 *	1.46
EXCEE			i '-	,			'2	3			12	3	
NO OF			i i 13	11			l 13	11			1 13	11	
			i	2.5			1				13	11	

COMPLIANCE : CRITERIA : NOTE :

BOD - 30 mg/l BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

BOD - NO TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - NO \* - EXCEEDS EFFLUENT CRITERIA

TP - NO TP - 1.0 mg/l ND - NO DATA

ANTICIPATED REMEDIAL MEASURES START DATE END DATE COMPLIANCE

EXISTING EQUIPMENT/OPERATION IS BEING MODIFIED 87/12/01 87/12/31 88/01/31

MUNICIPALITY : RODNEY REGION : SOUTHWEST PLANT : RODNEY LAGOON DISTRICT : LONDON SOUTH

WORKS NUMBER : 110001667 OPERATING AUTHORITY : MINISTRY

TREATMENT : CONVENTIONAL LAGOON SEASONAL WATERCOURSE : SIXTEEN MILE CK.

PHOSPHORUS REMOVAL - BATCH MAJOR BASIN MINOR BASIN : GREAT LAKES : LAKE ERIE

DESIGN CAPACITY : 0.54 1000 m3 IJC DESIGNATION : INDIRECT

POPULATION SERVED: 1025

1987	AV	G DAY	1	5 DA	Y BOD		1	SUSPEN	DED SOLI	DS	1 1	TOTAL PHO	SPHORUS
	F	LOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(100	0 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	i	0.448	517.0	ND			354.0	ND			   7.7	ND	
FEB	1	0.412	934.0	ND			458.0	ND			10.8	ND	
MAR	1	0.450	520.0	ND			622.0	ND			6.5	ND	
APR	1	0.500	217.0	19.8			116.0	66.7			7.9	0.7	
MAY	1	0.522	188.0	ND			213.0	ND			7.1	ND	
JUN	1	0.381	326.0	ND			130.0	ND			9.1	ND	
JUL	1	0.392	480.0	ND			249.0	ND			111.1	ND	
AUG	1	0.415	20.0	ND			56.0	ND			1.8	ND	
SEP	1	0.437	282.0	ND			148.0	ND			3.5	ND	
OCT	1	0.426	244.0	34.8			158.0	259.1			7.0	2.7 *	
VOV	1	0.443	14.0	ND			62.0	ND			0.8	ND	
DEC	 	0.544	149.0	ND			67.0 	ND			7.1	ND	
AVERAC	GE:	0.448	324.0	27.3		12.363	219.0	162.9 *	0	71.864	1 6.7	1.7 *	0.765
OBSERV	OITAV	NS:12	12	2			12	2			1 12	2	
EXCEED	DANCE	S	1				i				i	1	
10 OF	SAMP	LES	12	7			1 12	7			1 12	7	

COMPLIANCE : CRITERIA : NOTE :

> BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS BOD - YES

BOD - 30 mg/l TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - 40 mg/l SS - NO \* - EXCEEDS EFFLUENT CRITERIA

TP - NO TP - 1.0 mg/l ND - NO DATA

ANTICIPATED REMEDIAL MEASURES START DATE END DATE COMPLIANCE

ENVIRONMENTAL ASSESSMENT PROCESS 86/01/01

MUNICIPALITY : ROMNEY REGION : SOUTHWEST PLANT : WHEATLY WPCP DISTRICT : WINDSOR WORKS NUMBER : 110003246 OPERATING AUTHORITY : MINISTRY TREATMENT : EXTENDED AERATION WATERCOURSE : LAKE ERIE

PHOSPHORUS REMOVAL - CONTINUOUS MAJOR BASIN : GREAT LAKES MINOR BASIN : LAKE ERIE

DESIGN CAPACITY : 2.75 1000 m3 IJC DESIGNATION : DIRECT

POPULATION SERVED : 2328

1987	AVG DAY		5 DA	Y BOD		1	SUSPEN	DED SOLI	DS	1	TOTAL PHO	SPHORUS
	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d
JAN	0.740	208.0	1.7		1.258	221.0	7.1		5.254	9.3	0.3	0.229
FEB	0.660	137.0	5.4		3.564	166.0	11.4		7.524	8.5	0.5	0.32
MAR	0.728	396.0	3.6		2.621	329.0	8.6		6.261	20.4	0.4	0.269
APR	0.914	842.0	4.2		3.839	332.0	6.3		5.758	15.5	0.7	0.59
MAY	0.921	539.0	3.7		3.408	388.0	7.0		6.447	Marine and	0.4	0.359
JUN	1.102	491.0	1.9		2.094	313.0	4.3		4.739	14.5	0.6	0.67
JUL	0.758	347.0	2.9		2.198	293.0	4.5		3.411	111.4	0.3	0.22
AUG	0.847	559.0	1.0		0.847	386.0	8.0		6.776	11.8	0.3	0.280
SEP	0.961	947.0	2.5		2.402	544.0	4.1		3.940	15.5	0.3	0.298
OCT	1.030	369.0	2.7		2.781	371.0	7.1		7.313	16.7	0.7	0.680
NOV	0.858	155.0	3.0		2.574	302.0	11.2		9.610	8.8	0.6	0.472
DEC	0.868	99.0	2.2		1.910	188.0	11.8		10.242	3.8	0.5	0.39
AVERA	GE: 0.866	1 /2/ 0	2.0		2 /50	740.0	-			İ		
	VATIONS:12	424.0	2.9		2.458		7.6		6.440		0.5	0.400
	DANCES	12 	12			12 	12			12 	12	
NO OF	SAMPLES	23	25			140	142			23	25	

COMPLIANCE : CRITERIA : NOTE :

> BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS BOD - YES BOD - 25 mg/l TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - YES SS - 25 mg/l \* - EXCEEDS EFFLUENT CRITERIA

TP - YES TP - 1.0 mg/l ND - NO DATA

ANTICIPATED REMEDIAL MEASURES START DATE END DATE COMPLIANCE

MUNICIPALITY : SARNIA REGION : SOUTHWEST PLANT : BRIGHT'S GROVE LAGOON DISTRICT : SARNIA

WORKS NUMBER : 110001989 OPERATING AUTHORITY : MINISTRY

TREATMENT : CONVENTIONAL LAGOON SEASONAL WATERCOURSE : CREEK TO L.HURON MAJOR BASIN : GREAT LAKES

> MINOR BASIN : LAKE HURON

DESIGN CAPACITY : 1.75 1000 m3 IJC DESIGNATION : INDIRECT

POPULATION SERVED : 2500

1987	1 4	NVG DAY	l	5 DA	Y BOD		i	SUSPEN	DED SOLI	DS	i :	TOTAL PHO	SPHORUS
	1	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(10	000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN		1.040	   171.0	ND			   110.0	ND			110.0	ND	
FEB	Î	0.960	106.0	ND			138.0	ND			8.5	ND	
MAR	1	1.030	146.0	ND			114.0	ND			1 7.6	ND	
APR	1	1.200	137.0	4.3			131.0	5.0			8.5	2.5	
MAY	1	0.960	136.0	ND			1114.0	ND			7.1	ND	
JUN	1	0.970	ND	ND			ND	ND			l ND	ND	
JUL	1	0.940	229.0	ND			599.0	ND			114.1	ND	
AUG	1	0.900	172.0	ND			129.0	ND			1 6.6	ND	
SEP	Ĩ	1.000	ND	ND			ND	ND			I ND	ND	
OCT	1	1.000	214.0	8.4			544.0	21.4			110.5	1.8	
NOV	1	1.160	126.0	9.6			104.0	22.4			8.4	1.9	
DEC	1	1.200	88.0 	ND			75.0	ND			6.5	ND	
AVERA	GE:	1.030	     152.0	7.4		8.232	1 206.0	16.3		17.795	1 8.8	2.1	2 724
		ONS:12	1 10	3		J.LJL	I 10	3		17.795	<ul> <li>Statistic</li> </ul>	2.1	2.321
EXCEE	DANC	ES	i				1 "	3			10	3	
NO OF	SAM	IPLES	11	6			1 11	6			111	6	
			ı				1	·			! "		

COMPLIANCE : CRITERIA : NOTE :

> BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS BOD - 30 mg/l SS - 40 mg/l BOD - YES

TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS. SS - YES \* - EXCEEDS EFFLUENT CRITERIA

TP - YES TP - NONE ND - NO DATA

ANTICIPATED REMEDIAL MEASURES START DATE END DATE COMPLIANCE

FACILITY EXPANSION AND/OR UPGRADING-UNDER DISCUSSION WITH MUNICIPALITY

MUNICIPALITY : SARNIA PLANT : SARNIA WPCP

WORKS NUMBER : 120000907 TREATMENT : PRIMARY

PHOSPHORUS REMOVAL - CONTINUOUS

REGION

: SOUTHWEST

DISTRICT

: SARNIA

OPERATING AUTHORITY : MUNICIPAL

WATERCOURSE

: ST. CLAIR RIVER

MAJOR BASIN

: GREAT LAKES

MINOR BASIN

: LAKE ERIE

IJC DESIGNATION : DIRECT

DESIGN CAPACITY : 65.91 1000 m3

POPULATION SERVED : 64475

1987	i A'	VG DAY	i		5 DA	Y BOD		ĺ	SUSPEN	DED SOLI	DS	1	TOTAL PHO	SPHORUS
	000	FLOW	i	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	1		į	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN		51.155	T	145.0	58.0	60	2966.990	   163.0	31.0	81	1585.805	6.3	0.9	43.993
FEB	ì	50.497	i	131.0	47.0	64	2373.359	184.0	29.0	84	1464.413	5.9	1.0	47.972
MAR	i.	51.446	i	160.0	48.0	70	2469.408	228.0	31.0	86	1594.826	6.9	1.0	52.989
APR	i	53.784	i	124.0	44.0	65	2366.496	323.0	35.0	89	1882.440	8.2	1.0	53.784
MAY	i	50.594	i	154.0	55.0	64	2782.670	315.0	31.0	90	1568.414	7.0	0.9	45.535
JUN	ì	54.390	i	131.0	36.0	73	1958.040	1	18.0	90	979.020	6.0	0.9	47.863
JUL	1	56.019	i	96.0	24.0	75	1344.456	135.0	18.0	87	1008.342	5.6	0.9	47.616
AUG	ì	55.710	i	ND	ND	0	ND	110.0	13.0	88	724.230	5.1	0.8	42.89
SEP	i	58.183	i	151.0	26.0	83	1512.758	162.0	16.0	90	930.928	4.8	0.7	37.819
OCT	ì	57.903	i	77.0	7.0	91	405.321	192.0	17.0	91	984.351	6.8	0.7	42.848
NOV	ì	55.436	i	116.0	31.0	73	1718.516	271.0	25.0	91	1385.900	9.1	1.0	53.219
DEC	i	60.040	İ	134.0	54.0	60	3242.160	\$	25.0	92	1501.000	7.7	0.9	51.034
	1		1					<u> </u>				Ī		
AVER	AGE:	54.596	i	129.0	39.1	71	2103.652	214.0	24.1	88	1300.806	6.6	0.9	47.29
OBSE	RVAT	IONS:12	1	11	11			12	12			12	12	
EXCE	EDAN	CES	١					1	Maria de la companione de la companione de la companione de la companione de la companione de la companione de			l		
NO O	F SAI	<b>APLES</b>	1	23	21			174	174			171	171	

COMPLIANCE :

CRITERIA :

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

BOD - YES BOD - 50% ss - 70% SS - YES

\* - EXCEEDS EFFLUENT CRITERIA

TP - 1.0 mg/l TP - YES

ND - NO DATA

ANTICIPATED

REMEDIAL MEASURES

START DATE END DATE

COMPLIANCE

MUNICIPALITY : SEAFORTH

: SEAFORTH LAGOON

WORKS NUMBER : 110001177

TREATMENT : CONVENTIONAL LAGOON SEASONAL

PHOSPHORUS REMOVAL - CONTINUOUS

OPERATING AUTHORITY : MINISTRY

: SOUTHWEST : OWEN SOUND

DISTRICT

WATERCOURSE

: CRESSWELL CREEK

MAJOR BASIN

REGION

: GREAT LAKES

MINOR BASIN

: LAKE HURON

DESIGN CAPACITY :

PLANT

1.01 1000 m3

POPULATION SERVED :

2120

98.0

12

13

IJC DESIGNATION

: INDIRECT

1987	AVG DAY	1	5 DA	Y BOD		l	SUSPEN	DED SOLI	DS	1	TOTAL PHO	SPHORUS
	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	1.550	62.0	ND			79.0	ND			3.6	ND	
FEB	1.330	118.0	ND			134.0	ND			3.5	ND	
MAR	2.510	66.0	ND			122.0	ND			1 4.0	ND	
APR	2.240	63.0	17.5			98.0	31.1			3.4	0.8	
MAY	1.180	144.0	ND			125.0	ND			4.4	ND	
JUN	1.010	132.0	ND			198.0	ND			4.4	ND	
JUL	1.010	78.0	ND			141.0	ND			3.2	ND	
AUG	0.990	109.0	ND			182.0	ND			4.3	ND	
SEP	0.970	126.0	ND			176.0	ND			5.8	ND	
OCT	1.200	122.0	ND			296.0	ND			7.9	ND	
NOV	1.890	114.0	8.5			221.0	5.2			6.5	0.6	
DEC	2.530	45.0	3.6			64.0	5.8			2.0	0.3	

COMPLIANCE :

AVERAGE: 1.534 |

OBSERVATIONS: 12

**EXCEEDANCES** NO OF SAMPLES

CRITERIA :

9.9

3

13

NOTE :

12

13

BOD - YES

BOD - 30 mg/l

21.458 | 153.0

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

31.389 | 4.4

| 12

| 13

SS - YES

SS - 40 mg/l

\* - EXCEEDS EFFLUENT CRITERIA

TP - YES

TP - 1.0 mg/l

ND - NO DATA

14.0

3

13

ANTICIPATED

REMEDIAL MEASURES

START DATE END DATE

0.5

3

13

COMPLIANCE

1.158

MUNICIPALITY : SOMBRA REGION : SOUTHWEST PLANT : PORT LAMBTON LAGOON DISTRICT : SARNIA WORKS NUMBER: 110001694 OPERATING AUTHORITY : MINISTRY

TREATMENT : CONVENTIONAL LAGOON SEASONAL WATERCOURSE : MARSHY CK.TO ST.CLAIR R.

> MAJOR BASIN MINOR BASIN PHOSPHORUS REMOVAL - BATCH : GREAT LAKES : LAKE ERIE

DESIGN CAPACITY : 1.08 1000 m3 IJC DESIGNATION : DIRECT

POPULATION SERVED: 925

1987	AV	G DAY		5 DA	Y BOD		1	SUSPEN	DED SOLI	DS	1 1	TOTAL PHO	SPHORUS
	F	LOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(100	0 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d
JAN		0.437	1 111.0	ND			1 120.0	ND			   6.3	ND	
FEB	I	0.445	ND	ND			ND	ND			ND	ND	
MAR	1	0.504	79.0	ND			122.0	ND			1.2	ND	
APR	l	0.460	73.0	11.8			90.0	115.5			4.1	0.7	
MAY	l	0.362	138.0	ND			141.0	ND			8.4	ND	
JUN	I	0.395	119.0	ND			125.0	ND			7.8	ND	
JUL	1	0.391	110.0	ND			66.0	ND			7.9	ND	
AUG	l	0.341	122.0	ND			177.0	ND			7.4	ND	
SEP	l	0.469	125.0	ND			116.0	ND			7.3	ND	
OCT	ı	0.366	154.0	ND			108.0	ND			8.4	ND	
NOV	ı	0.396	ND	13.6			ND	111.5			ND	1.0	
DEC	! !	0.523	155.0	ND			166.0 	ND			7.4 	ND	
AVERAC	GE:	0.424	119.0	12.7		5.407	1 123.0	113.5 *		48.642	1 6.6	0.8	0.348
OBSER\ EXCEED			10 	2			i 10	2			10 	2	
IO OF	SAMP	LES	12	7			1 12	5			12	7	

COMPLIANCE : CRITERIA : NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

BOD - YES TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

BOD - 30 mg/l SS - 40 mg/l SS - NO \* - EXCEEDS EFFLUENT CRITERIA

ND - NO DATA TP - YES TP - 1.0 mg/l

ANTICIPATED REMEDIAL MEASURES START DATE END DATE COMPLIANCE

ENGINEERING STUDY PHASE

88/03/01 89/09/30

MUNICIPALITY : SOMBRA : SOUTHWEST
PLANT : SOMBRA LAGOON : SOUTHWEST : SARNIA

PLANT : SOMBRA LAGOON DISTRICT : SARNIA
WORKS NUMBER : 110001685 OPERATING AUTHORITY : MINISTRY

TREATMENT : CONVENTIONAL LAGOON SEASONAL WATERCOURSE : ST. CLAIR RIVER

PHOSPHORUS REMOVAL - BATCH MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ERIE

DESIGN CAPACITY : 0.96 1000 m3 IJC DESIGNATION : DIRECT

POPULATION SERVED : 402

1987	AVG DAY	1	5 DA	Y BOD		ĺ	SUSPEN	DED SOLI	DS	į į	TOTAL PHO	SPHORUS
	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	0.181	87.0	ND			73.0	ND			5.8	ND	
FEB	0.202	ND	ND			ND	ND			ND	ND	
MAR	0.201	102.0	ND			110.0	ND			9.2	ND	
APR	0.210	90.0	6.4			93.0	81.2			5.9	0.5	
MAY	0.182	139.0	ND			113.0	ND			7.7	ND	
JUN	0.181	98.0	ND			88.0	ND			6.3	ND	
JUL	0.199	114.0	ND			41.0	ND			9.5	ND	
AUG	0.231	90.0	ND			106.0	ND			6.3	ND	
SEP	0.233	58.0	ND			100.0	ND			5.3	ND	
OCT	0.178	250.0	2.6			374.0	26.0			9.7	0.2	
NOV	0.211	121.0	10.2			504.0	80.8			7.1	0.5	
DEC	0.248 	108.0 	ND			71.0 	ND			6.3	ND	
AVERA	GE: 0.205	114.0	6.4		1.320	152.0	62.7 *		12.910	1 7.2	0.4	0.075
	VATIONS:12	11	3			11	3		,10	11	3	5.07.
	DANCES	! <u> </u>	_			ĺ				l		
IO OF	SAMPLES	13	7			13	7			13	7	

COMPLIANCE : CRITERIA : NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

BOD - YES BOD - 30 mg/L TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - NO SS - 40 mg/l \* - EXCEEDS EFFLUENT CRITERIA

TP - YES TP - 1.0 mg/l ND - NO DATA

REMEDIAL MEASURES START DATE END DATE COMPLIANCE

FACILITY EXPANSION AMD/OR UPGRADING-ENGINEERING STUDY PHASE 88/03/01 89/09/01

MUNICIPALITY : SOUTHAMPTON PLANT : SOUTHAMPTON WPCP

WORKS NUMBER : 110001453

TREATMENT : OXIDATION DITCH

REGION : SOUTHWEST DISTRICT : OWEN SOUND

OPERATING AUTHORITY : MINISTRY WATERCOURSE : SAUGEEN R.

MAJOR BASIN : GREAT LAKES MINOR BASIN : LAKE HURON

IJC DESIGNATION : INDIRECT

DESIGN CAPACITY : 3.04 1000 m3

POPULATION SERVED : 2680

1987	AVG DAY	1	5 DA	Y BOD		1	SUSPEN	DED SOLI	DS	į i	TOTAL PHO	SPHORUS
	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	0.802	1 160.0	4.7		3.769	136.0	7.0		5.614	1 4.1	2.6	2.045
FEB	0.697	88.0	5.9		4.112	90.0	8.9		6.203		2.9	1.986
MAR	0.891	58.0	3.7		3.297	104.0	5.2		4.633	3.6	2.3	2.040
APR	0.941	71.0	3.8		3.576	110.0	3.3		3.105	3.9	2.6	2.428
MAY	0.899	108.0	3.4		3.057	133.0	6.7		6.023	5.5	3.7	3.353
JUN	0.921	74.0	1.0		0.921	78.0	2.0		1.842	4.4	3.4	3.113
JUL	1.300	84.0	2.0		2.600	123.0	2.0		2.600	5.6	4.0	5,135
AUG	1.374	85.0	2.0		2.748	125.0	3.0		4.122	5.3	3.8	5.194
SEP	1.144	62.0	2.0		2.288	104.0	2.0		2.288	4.1	3.7	4.233
OCT	1.355	63.0	3.0		4.065	105.0	4.0		5.420	4.3	2.5	3.388
NOV	1.489	59.0	3.0		4.467	103.0	3.0		4.467	3.3	2.0	3.023
DEC	1.599	50.0	4.0		6.396	80.0	4.0		6.396	3.9	2.0	3.150
	I.	<u> </u>								l 		
AVERA	GE: 1.118	80.0	3.2		3.441	108.0	4.3		4.393	4.4	2.9	3.257
	VATIONS:12 DANCES	12	12			12	12			12 	12	
NO OF	SAMPLES	29	23			53	23			24	23	

COMPLIANCE :

BOD - YES

SS - YES

CRITERIA :

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

\* - EXCEEDS EFFLUENT CRITERIA

ND - NO DATA TP - YES TP - NONE

BOD - 25 mg/l

SS - 25 mg/l

REMEDIAL MEASURES

START DATE END DATE

ANTICIPATED COMPLIANCE

MUNICIPALITY : ST EDMUNDS REGION : SOUTHWEST PLANT : TOBERMORY LAGOON DISTRICT : OWEN SOUND

WORKS NUMBER : 120001577 OPERATING AUTHORITY : MUNICIPAL

TREATMENT : AERATED CELL PLUS LAGOON : NO DISC.TO SURFACE WATER WATERCOURSE

EXFILTRATION LAGOON MAJOR BASIN : GREAT LAKES MINOR BASIN : LAKE HURON

DESIGN CAPACITY : 0.16 1000 m3 IJC DESIGNATION : DIRECT

POPULATION SERVED : 100

1987	AVG DAY		5 DA	Y BOD		1	SUSPEN	DED SOLI	DS	1	TOTAL PHO	SPHORUS
	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d
JAN	0.048	ND	ND		ND	l   ND	ND		ND	l ND	ND	ND
FEB	0.009	ND	ND		ND	ND	ND		ND	l ND	ND	ND
MAR	0.015	ND	ND		ND	ND	ND		ND	ND	ND	ND
APR	0.019	ND	ND		ND	ND	ND		ND	I ND	ND	ND
MAY	0.044	ND	ND		ND	ND ND	ND		ND	l ND	ND	ND
JUN	0.073	24.0	8.1		0.591	51.0	39.6		2.891	9.8	2.9	0.21
JUL	0.132	136.0	30.0		3.960	216.0	53.0		6.996	120.0	8.0	1.04
AUG	0.142	ND	ND		ND	ND ND	ND		ND	I ND	ND	ND
SEP	0.085	ND	ND		ND	ND	ND		ND	l ND	ND	ND
OCT	0.061	ND	ND		ND	ND	ND		ND	l ND	ND	ND
NOV	0.033	ND	ND		ND	ND	ND		ND	ND	ND	ND
DEC	0.026 	ND	ND		ND	ND	ND		ND	ND	ND	ND
AVERAC	GE: 0.057	80.0	19.1		2.276	134.0	46.3 *	- <del>1</del>	4.944	114.9	5.4	0.630
	ATIONS:12 ANCES	2 	2			2 	2		2.505.53	2	2	5.05
10 OF	SAMPLES	2	2			2	2			1 2	2	

COMPLIANCE : CRITERIA : NOTE :

> BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS BOD - YES

BOD - 30 mg/l TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - 40 mg/l SS - NO \* - EXCEEDS EFFLUENT CRITERIA

TP - YES TP - NONE ND - NO DATA

ANTICIPATED

REMEDIAL MEASURES START DATE END DATE COMPLIANCE

MUNICIPALITY: ST MARYS

PLANT: ST MARYS WPCP

REGION: SOUTHWEST

LONDON NORTH

WORKS NUMBER: 110001275 OPERATING AUTHORITY: MINISTRY

TREATMENT : CONVENTIONAL ACTIVATED SLUDGE WATERCOURSE : THAMES RIVER

PHOSPHORUS REMOVAL-CONTINUOUS MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ERIE

DESIGN CAPACITY : 3.63 1000 m3 IJC DESIGNATION : INDIRECT

POPULATION SERVED : 5000

I	ı				ŀ						3
AVG DAY	I	5 DA	Y BOD		l	SUSPEN	DED SOLI	DS	1 1	TOTAL PHO	SPHORUS
FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d
3.920	1 187.0	12.9		50.568	   125.0	6.5		25.480	1 5.1	0.5	1.92
4.130	224.0	8.6			Š	5.1			St. St. In		2.06
4.940	126.0	6.2		30.628	161.0	5.6			(M) 12256 12		2.32
4.850	155.0	6.3		30.555	230.0	4.1			(III) HERICE	1046740000	2.32
4.040	186.0	4.2		16.968	143.0	4.8		19.392	6.1		2.02
4.180	292.0	4.3		17.974	191.0	5.9		24.662	6.8		2.59
3.850	432.0	3.8		14.630	253.0	3.3			8	0.7	2.73
3.820	236.0	5.0		19.100	208.0	3.8		14.516	6.0	0.6	2.17
3.690	229.0	5.2		19.188	158.0	6.5		23.985	6.0	0.7	2.39
3.760	143.0	6.5		24.440	132.0	6.4		24.064	6.4	0.8	3.15
3.680	159.0	3.4		12.512	169.0	2.2		8.096	7.9	0.4	1.50
4.720 	140.0 	5.0		23.600	111.0 	4.6		21.712	4.5 	0.4	1.93
GE: 4.132	209.0	6.0		24.640	184.0	4.9		20.269	1 6.2	0.6	2.26
ATIONS:12 DANCES	12 	12			12	12			12	12	
SAMPLES	26	26			26	26			1 26	26	
	FLOW   (1000 m3/d)   3.920   4.130   4.940   4.850   4.040   4.180   3.850   3.690   3.760   3.680   4.720   4.720   6E: 4.132   ANCES	FLOW   INF   (1000 m3/d)   (mg/L)	FLOW   INF   EFF   (1000 m3/d)   (mg/L)   (mg/L)   (mg/L)	FLOW   INF   EFF   (1000 m3/d)   (mg/L)   (mg/L)   (%REM)	FLOW   INF	FLOW   INF   EFF   LOAD   INF   (1000 m3/d)   (mg/L)   (mg/L)   (%REM)   (kg/d)   (mg/L)   (mg/L)   (%REM)   (kg/d)   (mg/L)   (mg/L)   (%REM)   (kg/d)   (mg/L)   (mg/L)   (kg/d)   (mg/L)   (kg/d)	FLOW   INF   EFF   LOAD   INF   EFF   (1000 m3/d)   (mg/L)   (mg/L)   (%REM)   (kg/d)   (mg/L)   (mg	FLOW   INF   EFF   LOAD   INF   EFF   (1000 m3/d)   (mg/L)   (mg/L)   (%REM)   (kg/d)   (mg/L)   (mg/L)   (%REM)     3.920   187.0   12.9   50.568   125.0   6.5     4.130   224.0   8.6   35.518   322.0   5.1     4.940   126.0   6.2   30.628   161.0   5.6     4.850   155.0   6.3   30.555   230.0   4.1     4.040   186.0   4.2   16.968   143.0   4.8     4.180   292.0   4.3   17.974   191.0   5.9     3.850   432.0   3.8   14.630   253.0   3.3     3.820   236.0   5.0   19.100   208.0   3.8     3.690   229.0   5.2   19.188   158.0   6.5     3.760   143.0   6.5   24.440   132.0   6.4     3.680   159.0   3.4   12.512   169.0   2.2     4.720   140.0   5.0   23.600   111.0   4.6     ATIONS:12   12   12   12   12   12     ANNCES	FLOW   INF   EFF   LOAD   INF   EFF   LOAD   (1000 m3/d)   (mg/L)   (mg/L)   (1000 m3/d)   (mg/L)   (mg/L)   (1000 m3/d)   (mg/L)   (1000 m3/d)   (mg/L)   (1000 m3/d)   (mg/L)   (1000 m3/d)   (mg/L)   (1000 m3/d)   (1000 m3/	FLOW	FLOW

COMPLIANCE : CRITERIA : NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

BOD - YES BOD - 25 mg/l TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - YES SS - 25 mg/l \* - EXCEEDS EFFLUENT CRITERIA

TP - YES TP - 1.0 mg/L ND - NO DATA

REMEDIAL MEASURES

START DATE

START DATE

COMPLIANCE

FINAL DESIGN PHASE 88/09/01 89/06/30 90/01/31

MUNICIPALITY : ST THOMAS PLANT : ST THOMAS WPCP

WORKS NUMBER : 120001112

TREATMENT : CONVENTIONAL ACTIVATED SLUDGE

PHOSPHORUS REMOVAL - CONTINUOUS

REGION : SOUTHWEST

DISTRICT : LONDON SOUTH OPERATING AUTHORITY : MUNICIPAL

WATERCOURSE : KETTLE CREEK MAJOR BASIN

: GREAT LAKES MINOR BASIN : LAKE ERIE

DESIGN CAPACITY : 40.91 1000 m3 IJC DESIGNATION : INDIRECT

POPULATION SERVED: 28218

1987	A	VG DAY	ı		5 DA	Y BOD		1	SUSPEN	DED SOLI	DS	1	TOTAL PHO	SPHORUS
	1	FLOW	INF		EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(10	000 m3/d)	(mg/	.) (п	mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	İ	18.331	   60	.0	4.5		82.489	   170.0	4.0		73.324	   6.3	0.6	11.182
FEB	Ì	15.749	89	.0 1	10.2		160.640	131.0	6.2		97.644		0.8	11.969
MAR	ĺ	17.671	63	.0 1	14.5		256.229	93.0	18.8		332.215	3.8	0.7	12.900
APR	1	18.942	79	.0	7.7		145.853	434.0	15.0		284.130	12.0	0.8	14.207
MAY	1	ND	80	.0	2.3		ND	160.0	7.4		ND	4.8	0.9	ND
JUN	1	15.911	91	.0	5.7		90.693	99.0	3.8		60.462	5.2	0.7	11.774
JUL	1	14.811	102	.0	5.5		81.460	210.0	4.3		63.687	7.3	1.0	14.81
AUG	1	17.011	80	.0	4.3		73.147	125.0	2.0		34.022	5.8	1.0	16.160
SEP	1	19.093	137	.0	5.3		101.193	126.0	5.4		103.102	5.5	1.0	19.093
OCT	1	14.660	259	.0	7.3		107.018	312.0	4.8		70.368	7.3	0.9	13.634
NOV	1	15.759	104	.0	3.8		59.884	91.0	2.8		44.125	5.6	0.8	13.238
DEC	1	19.797	73 	.0	8.0		158.376	64.0 	3.4		67.310	5.7 	0.6	12.670
AVERA	GE:	17.067	1 101	.0	6.6		119.726	168.0	6.5		111.854	1 6.2	0.8	13.785
OBSER EXCEE		ONS:11	j 1: 	2	12			12 I	12			12	12	.5.76
NO OF	SAM	IPLES	j 1:	2	12			12	12			12	213	

COMPLIANCE : CRITERIA : NOTE :

> BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS BOD - YES BOD - 25 mg/l SS - 25 mg/l TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - YES \* - EXCEEDS EFFLUENT CRITERIA

TP - YES TP - 1.0 mg/l ND - NO DATA

ANTICIPATED REMEDIAL MEASURES START DATE END DATE COMPLIANCE

PHOSPHORUS REMOVAL OPERATION UNDER REVIEW 87/12/01 88/06/30 88/06/30

MUNICIPALITY : STEPHEN REGION : SOUTHWEST PLANT : GRAND BEND LAGOON DISTRICT : OWEN SOUND

WORKS NUMBER : 110002452 OPERATING AUTHORITY : MINISTRY

TREATMENT : CONVENTIONAL LAGOON SEASONAL WATERCOURSE : AUSABLE RIVER MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE HURON PHOSPHORUS REMOVAL - BATCH

IJC DESIGNATION : INDIRECT DESIGN CAPACITY : 1.89 1000 m3 POPULATION SERVED: 1270

1987	AVG DAY	ĺ	5 DA	Y BOD		Î	SUSPEN	DED SOLI	DS	i :	TOTAL PHO	SPHORUS
	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	   0.678	   75.0	ND			221.0	ND			4.0	ND	
FEB	0.628	121.0	ND			178.0	ND			4.4	ND	
MAR	0.769	28.0	ND			36.0	ND			2.5	ND	
APR	0.937	98.0	11.4			123.0	81.7			4.2	0.3	
MAY	1.031	104.0	ND			127.0	ND			5.3	ND	
JUN	1.161	156.0	ND			177.0	ND			10.2	ND	
JUL	1.556	310.0	ND			394.0	ND			6.2	ND	
AUG	1.523	129.0	ND			130.0	ND			5.0	פא	
SEP	1.121	169.0	ND			189.0	ND			5.0	ND	
OCT	0.958	133.0	1.6			105.0	20.1			3.9	0.2	
NOV	0.893	81.0	ND			70.0	ND			4.9	ND	
DEC	1.002 	219.0 	ND			227.0 	ND			4.5 	ND	
AVERA	GE: 1.021	135.0	6.5		6.107	165.0	50.9 *		47.904	1 5.0	0.2	0.203
	VATIONS:12 DANCES	12 	2			12 	2			12 	2	Alexander Park
NO OF	SAMPLES	13	5			1 13	5			1 13	5	

COMPLIANCE : CRITERIA : NOTE : BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

BOD - YES TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

BOD - 30 mg/l SS - 40 mg/l SS - NO \* - EXCEEDS EFFLUENT CRITERIA

TP - 1.0 mg/l TP - YES ND - NO DATA

ANTICIPATED REMEDIAL MEASURES COMPLIANCE START DATE END DATE

ENGINEERING STUDY PHASE 88/03/01 89/09/30

MUNICIPALITY : STEPHEN REGION : SOUTHWEST
PLANT : HURON PARK WPCP DISTRICT : OWEN SOUND
WORKS NUMBER : 110003488 OPERATING AUTHORITY : MINISTRY
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE WATERCOURSE : AUSABLE R

MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE HURON
IJC DESIGNATION : INDIRECT

DESIGN CAPACITY : 1.81 1000 m3 IJC DESIGNATION : INDIRECT

POPULATION SERVED : 1400

1987	AVG DAY	1	5 DA	Y BOD		1	SUSPEN	DED SOLI	DS	1 1	TOTAL PHO	SPHORUS
	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d
JAN	1.610	74.0	4.2		6.762	118.0	4.9		7.889	   1.9	1.2	1.996
FEB	1.420	97.0	4.6		6.532	79.0	4.5		6.390	3.8	1.3	1.84
MAR	1.660	230.0	9.5		15.770	126.0	17.9		29.714	4.3	1.2	1.992
APR	1.600	123.0	10.0		16.000	98.0	9.6		15.360	3.5	1.1	1.808
MAY	1.150	231.0	17.0		19.550	164.0	11.3		12.995	4.0	1.4	1.610
JUN	1.050	173.0	10.5		11.025	300.0	7.5		7.875	4.4	0.9	0.92
JUL	1.040	94.0	12.6		13.104	255.0	9.4		9.776		0.6	0.62
AUG	1.020	303.0	31.6		32.232	161.0	22.7		23.154	5.2	3.8	3.87
SEP	1.000	107.0	15.6		15.600	143.0	12.0		12.000	4.7	2.3	2.25
OCT	1.160	62.0	7.7		8.932	89.0	11.1		12.876	2.8	1.9	2.14
NOV	1.540	30.0	6.3		9.702	50.0	5.9		9.086	2.1	0.7	1.07
DEC	1.890 	121.0 	8.3		15.687	106.0	3.8		7.182	2.7	1.7	3.25
AVERA	GE: 1.345	137.0	11.5		14.241	141.0	10.1		12.858	1 3.6	1.5	1.950
	VATIONS:12 DANCES	12 	12			12 	12		,-1000	12	12	1.75
NO OF	SAMPLES	25	25			25	25			l I 25	25	

COMPLIANCE : CRITERIA : NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
BOD - YES BOD - 25 mg/L TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - YES SS - 25 mg/L \* - EXCEEDS EFFLUENT CRITERIA

TP - YES TP - NONE ND - NO DATA

REMEDIAL MEASURES ANTICIPATED

START DATE END DATE COMPLIANCE

MUNICIPALITY : STRATFORD REGION : SOUTHWEST

PLANT : STRATFORD WPCP DISTRICT : LONDON NORTH
WORKS NUMBER : 110000702 OPERATING AUTHORITY : MINISTRY

TREATMENT : CONVENTIONAL ACTIVATED SLUDGE WATERCOURSE : AVON RIVER
PHOSPHORUS REMOVAL-CONTINUOUS MAJOR BASIN : GREAT LAKES

EFFLUENT POLISHING MINOR BASIN : LAKE ERIE
DESIGN CAPACITY : 27.27 1000 m3 IJC DESIGNATION : INDIRECT

POPULATION SERVED: 26197

1987	AVG DAY	1	5 DA	Y BOD		I	SUSPEN	DED SOLI	DS	1 .	TOTAL PHO	SPHORUS
ĺ	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	   17.700	1 110.0	7.1		125.670	   119.0	2.0		35.400	   5.1	0.5	9.204
FEB	13.200	107.0	17.2		227.040	148.0	1.6		21.120	5.1	0.2	3.168
MAR	22.200	61.0	12.4		275.280	105.0	0.9		19.980	3.4	0.1	2.220
APR	20.900	96.0	8.2		171.380	132.0	1.7		35.530	4.2	1.1 *	23.408
MAY	12.900	105.0	5.9		76.110	149.0	2.0		25.800	5.5	0.3	4.386
JUN	12.200	163.0	15.6		190.320	277.0	1.7		20.740	5.9	0.2	2.562
JUL	13.200	98.0	21.3		281.160	123.0	1.5		19.800	4.7	0.1	1.848
AUG	14.600	102.0	8.7		127.020	162.0	1.2		17.520	4.7	0.1	1.460
SEP	15.990	168.0	9.3		148.707	240.0	1.6		25.584	5.4	0.2	3.038
OCT	18.606	184.0	9.6		178.618	253.0	0.4		7.442	6.3	0.2	4.279
NOV	20.907	210.0	11.4		238.340	222.0	1.4		29.270	5.1	0.4	9.199
DEC	27.481 	145.0 	9.6		263.818	250.0 	0.6		16.489	4.8 	0.5	13.191
AVERAG	GE: 17.490	129.0	11.4		191.955	182.0	1.4		22.890	5.0	0.3	6.497
OBSERV	VATIONS: 12	1 12	12			1 12	12			1 12	12	
EXCEED	DANCES	1				İ				i	1	
NO OF	SAMPLES	26	26			26	26			26	24	
NO OF	SAMPLES	26 	26			26 	26			26 	24	

COMPLIANCE : CRITERIA : NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

BOO - YES BOO - 25 mg/l TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - YES SS - 25 mg/l \* - EXCEEDS EFFLUENT CRITERIA

TP - NO TP - 1.0 mg/L ND - NO DATA

REMEDIAL MEASURES START DATE END DATE COMPLIANCE

FUNDING UNDER REVIEW 88/01/31

MARGINAL FAILURE-CONTINUE TO MAINTAIN AND MONITOR LEVEL OF FAILED PARAMETER 88/01/31

MUNICIPALITY : STRATHROY REGION : SOUTHWEST PLANT : STRATHROY LAGOON DISTRICT : LONDON NORTH

WORKS NUMBER : 120000827 OPERATING AUTHORITY : MUNICIPAL TREATMENT : AERATED LAGOON WATERCOURSE : SYDENHAM RIVER

CONTINUOUS DISCHARGE MAJOR BASIN : GREAT LAKES PHOSPHORUS REMOVAL - CONTINUOUS MINOR BASIN : LAKE ERIE

DESIGN CAPACITY : 5.18 1000 m3 IJC DESIGNATION : INDIRECT

POPULATION SERVED: 9051

1987	AVG DAY	1	5 DA	Y BOD		1	SUSPEN	DED SOLI	DS	1	TOTAL PHO	SPHORUS
	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d
JAN	3.750	83.0	6.0		22.500	   128.0	3.9		14.625	l l 5.0	1.0	3.82
FEB	3.310	143.0	20.0		66.200	206.0	10.5		34.755	- E	1.6 *	5.26
MAR	4.490	107.0	19.3		86.657	170.0	21.5		96.535	5.3	1.7 *	7.40
APR	4.850	90.0	14.8		71.780	176.0	18.7		90.695	1 4.7	1.3 *	6.06
MAY	3.280	110.0	15.5		50.840	187.0	44.4		145.632	6.2	1.1 *	3.70
JUN	3.520	113.0	16.4		57.728	433.0	29.6		104.192	5.7	1.3 *	4.54
JUL	3.060	73.0	19.0		58.140	176.0	87.8		268.668	5.0	1.5 *	4.59
AUG	6.220	105.0	2.6		16.172	258.0	2.0		12.440	ė.	0.6	3.54
SEP	4.710	207.0	2.1		9.891	361.0	1.2		5.652	8.2	0.9	4.33
OCT	3.850	116.0	2.3		8.855	180.0	1.4		5.390	7.2	0.6	2.27
NOV	3.960	152.0	2.6		10.296	279.0	1.2		4.752	7.6	0.5	1.90
DEC	4.850 	211.0 	3.0		14.550	407.0 	1.4		6.790	7.7	0.4	1.84
VERA	GE: 4.154	126.0	10.3		39.467	247.0	18.6		65.844	1 6.2	1.0	4.10
BSER\	VATIONS:12	12	12			1 12	12		025-2014-075-7-1-10	l 12	12	4.10
XCEE	DANCES	I				1				i	6	
O OF	SAMPLES	42	38			41	38			l 42	38	

COMPLIANCE : CRITERIA : NOTE :

> BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS BOD - YES

BOD - 30 mg/l TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - YES SS - 40 mg/l \* - EXCEEDS EFFLUENT CRITERIA

TP - NO TP - 1.0 mg/l ND - NO DATA

ANTICIPATED REMEDIAL MEASURES START DATE END DATE COMPLIANCE NEW EQUIPMENT IS BEING INSTALLED 86/09/01 87/06/30

UPGRADING COMPLETED 87/07/31 1988

MUNICIPALITY : THAMESVILLE REGION : SOUTHWEST PLANT : THAMESVILLE WPCP DISTRICT : WINDSOR WORKS NUMBER: 110002470 OPERATING AUTHORITY : MINISTRY TREATMENT : EXTENDED AERATION

WATERCOURSE : THAMES RIVER PHOSPHORUS REMOVAL - CONTINUOUS : GREAT LAKES

MAJOR BASIN : GREAT LAKE MINOR BASIN : LAKE ERIE

DESIGN CAPACITY : 0.81 1000 m3 IJC DESIGNATION : INDIRECT

POPULATION SERVED: 905

	1	I				Г				T		
1987	AVG DAY	I	5 DA	Y BOD		1	SUSPEN	DED SOLI	DS	1	TOTAL PHO	SPHORUS
	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	0.230	   72.0	8.4		1.932	   77.0	12.4		2 052	114	0.5	0 115
FEB	0.222	North and				•			2.852		0.5	0.115
	100000	163.0	23.6			125.0	20.7		4.595	0	0.9	0.209
MAR	0.204	209.0	4.5			155.0	18.1		3.692	There was a state	0.6	0.112
APR	0.210	256.0	7.7		1.617	305.0	12.1		2.541	10.3	0.4	0.078
MAY	0.200	205.0	24.9		4.980	144.0	13.7		2.740	8.6	1.6 *	0.326
JUN	0.203	281.0	14.5		2.944	94.0	4.9		0.995	9.9	0.6	0.124
JUL	0.203	140.0	6.6		1.340	169.0	9.2		1.868	8.5	0.3	0.063
AUG	0.213	337.0	7.7		1.640	627.0	9.8		2.087	10.0	0.2	0.051
SEP	0.211	96.0	12.7		2.680	89.0	5.7		1.203	7.5	0.2	0.036
OCT	0.186	224.0	7.4		1.376	349.0	4.8		0.893	10.2	0.2	0.041
NOV	0.132	78.0	4.1		0.541	68.0	7.1		0.937	7.1	0.2	0.032
DEC	0.201	117.0	2.7		0.543	115.0	2.5		0.503	6.6	0.2	0.036
		<u> </u>								1		
AVERA	GE: 0.201	   182.0	10.4		2.146	   193.0	10.1		2.076	1 8.3	0.5	0.102
OBSER	VATIONS:12	12	12			1 12	12		=	1 12	12	0.102
	DANCES	i				i -				1 '-	1	
NO OF	SAMPLES	21	21			21	21			58	63	
		ı				I				i		

CRITERIA : COMPLIANCE : NOTE :

> BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS BOD - 25 mg/l

BOD - YES TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - YES \* - EXCEEDS EFFLUENT CRITERIA

TP - NO TP - 1.0 mg/l ND - NO DATA

ANTICIPATED REMEDIAL MEASURES START DATE END DATE COMPLIANCE

COLLECTION SYSTEM INPUT MONITORING 87/06/30

MUNICIPALITY : THEDFORD REGION : SOUTHWEST PLANT : THEDFORD LAGOON DISTRICT : SARNIA WORKS NUMBER : 110002336 OPERATING AUTHORITY : MINISTRY

TREATMENT : CONVENTIONAL LAGOON ANNUAL WATERCOURSE : DECKER CREEK

MAJOR BASIN : GREAT LAKES MINOR BASIN : LAKE HURON

DESIGN CAPACITY : 0.48 1000 m3 IJC DESIGNATION : INDIRECT

POPULATION SERVED : 661

1987	A	VG DAY	i	5 DA	Y BOD		i	SUSPEN	DED SOLI	DS	į į	TOTAL PHO	SPHORUS
	1	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(10	000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	i	0.185	   73.0	ND			1 90.0	ND			l l 6.9	ND	
FEB	i	0.183	130.0	ND			129.0	ND			8.0	ND	
MAR	i	0.209	52.0	ND			95.0	ND			4.8	ND	
APR	1	0.184	74.0	10.6			103.0	57.3			4.5	0.4	
MAY	1	0.172	113.0	ND			90.0	ND			8.2	ND	
JUN	1	0.199	84.0	ND			63.0	ND			7.3	ND	
JUL	1	0.244	99.0	ND			190.0	ND			6.0	ND	
AUG	I	0.194	96.0	ND			124.0	ND			6.5	ND	
SEP	1	0.166	149.0	ND			205.0	ND			10.0	ND	
OCT	1	0.210	159.0	ND			232.0	ND			7.7	ND	
NOV	1	0.192	134.0	ND			226.0	ND			8.0	ND	
DEC	1	0.237	89.0	ND			109.0	ND			5.5	ND	
	I		<u> </u>				1				1		
AVERA	GE:	0.198	   104.0	10.6		1.950	1 138.0	57.3 *	7.0	10.543	   7.0	0.4	0.064
OBSER	VATI	ONS:12	12	1			1 12	1			1 12	1	3.304
EXCEE	DANC	ES	Ì				Í				i	2	
NO OF	SAM	PLES	1 12	2			i 12	2			1 12	2	
			Ì				1				1	1 <del>. =</del> 7.	

COMPLIANCE : CRITERIA : NOTE :

BOD - 30 mg/l 40 mg/l BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS BOD - YES TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - NO \* - EXCEEDS EFFLUENT CRITERIA

TP - YES TP - NONE ND - NO DATA

ANTICIPATED REMEDIAL MEASURES START DATE END DATE COMPLIANCE

UNDER DISCUSSION WITH MUNICIPALITY

MUNICIPALITY: THORNBURY REGION : SOUTHWEST

PLANT : THORNBURY LAGOON DISTRICT : OWEN SOUND WORKS NUMBER : 110001890 OPERATING AUTHORITY : MINISTRY

TREATMENT : AERATED CELL PLUS LAGOON WATERCOURSE : BEAVER RIVER

SUMMER STORAGE MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE HURON

DESIGN CAPACITY: 1.72 1000 m3 IJC DESIGNATION: INDIRECT

POPULATION SERVED : 1758

1987	AV	G DAY	1	5 DA	Y BOD		1	SUSPEN	DED SOLI	DS	1 1	TOTAL PHO	SPHORUS
	F	LOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(100	0 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	1	1.203	75.0	3.0			66.0	4.4			3.0	1.0	
FEB	ĺ	1.120	114.0	4.1			111.0	1.5			3.1	1.3	
MAR	ĺ	1.792	78.0	6.2			70.0	2.8			2.7	1.4	
APR	1	1.660	31.0	13.6			41.0	46.2			1.5	1.3	
MAY	1	1.030	71.0	ND			202.0	ND			3.3	ND	
JUN	İ	1.004	47.0	ND			101.0	ND			3.6	ND	
JUL	1	1.060	51.0	ND			82.0	ND			3.8	ND	
AUG	1	1.142	43.0	ND			61.0	ND			3.5	כא	
SEP	1	0.925	98.0	ND			98.0	ND			4.7	ND	
OCT	1	1.052	108.0	2.3			147.0	4.4			4.1	2.8	
NOV	1	1.356	12.0	1.7			11.0	5.2			0.9	1.8	
DEC	! 1	1.830	85.0 	4.7			121.0 	4.5			3.6	1.3	
AVERA	GE:	1.265	68.0	5.1		7.888	93.0	9.9		15.514	3.2	1.6	2.16
	VAT I O	NS:12 S	1 12	7			12 	7			12 	7	
NO OF	SAMP	LES	27	21			27	21			27	21	

COMPLIANCE: CRITERIA: NOTE:

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

BOD - YES BOD - 30 mg/l TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - YES SS - 40 mg/l \* - EXCEEDS EFFLUENT CRITERIA

TP - YES TP - NONE ND - NO DATA

ANTICIPATED

REMEDIAL MEASURES START DATE END DATE COMPLIANCE

ENVIRONMENTAL ASSESSMENT PROCESS 89/01/31 90/01/31

MUNICIPALITY : TILBURY REGION : SOUTHWEST PLANT : TILBURY LAGOON DISTRICT : WINDSOR WORKS NUMBER : 120000916 OPERATING AUTHORITY : MUNICIPAL TREATMENT : CONVENTIONAL LAGOON SEASONAL WATERCOURSE : TILBURY CREEK

> PHOSPHORUS REMOVAL - CONTINUOUS MAJOR BASIN : GREAT LAKES MINOR BASIN : LAKE ERIE

DESIGN CAPACITY : 2.53 1000 m3 IJC DESIGNATION : INDIRECT

POPULATION SERVED : 4200

1987	AVG DAY	1	5 DA	Y BOD		1	SUSPEN	DED SOLI	DS	1	TOTAL PHO	SPHORUS
	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	3.710	ND	ND			l ND	ND			ND	ND	
FEB	4.140	ND	ND			ND ND	ND			ND	ND	
MAR	3.800	ND	ND			ND	ND			ND	ND	
APR	3.800	ND	ND			ND	ND			ND	ND	
MAY	3.870	ND	ND			ND	ND			ND	ND	
JUN	3.850	ND	ND			ND	ND			ND	ND	
JUL	3.230	ND	ND			ND	ND			ND	ND	
AUG	3.200	ND	ND			ND	ND			ND	ND	
SEP	3.300	ND	ND			ND	ND			ND	ND	
OCT	ND	ND	ND			ND	ND			ND	ND	
NOV	3.877	ND	ND			ND	ND			ND	ND	
DEC	4.535	ND	ND			ND	ND			ND	ND	
		<u> </u>				1				1		
AVERA	GE: 3.756	0.0	0.0		0.000	0.0	0.0		0.000	0.0	0.0	0.000
OBSER	VATIONS:11	0	0			0	0			j 0	0	
EXCEE	DANCES	1				1				1		
NO OF	SAMPLES	0	0			0	0			0	0	
		1				Î				i		

COMPLIANCE : CRITERIA : NOTE :

> BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS BOD - INSUFFICIENT DATA BOD - 30 mg/L TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - INSUFFICIENT DATA SS - 40 mg/l \* - EXCEEDS EFFLUENT CRITERIA

TP - INSUFFICIENT DATA TP - 1.0 mg/l ND - NO DATA

> ANTICIPATED START DATE END DATE COMPLIANCE

NONE

REMEDIAL MEASURES

MUNICIPALITY : TILBURY NORTH

PLANT : STONEY POINT P.V. LAGOON

WORKS NUMBER : 110002345

: CONVENTIONAL LAGOON SEASONAL

PHOSPHORUS REMOVAL - BATCH

REGION DISTRICT : SOUTHWEST

: WINDSOR

OPERATING AUTHORITY : MINISTRY

WATERCOURSE

: LITTLE CREEK

MAJOR BASIN

: GREAT LAKES

MINOR BASIN

: LAKE ERIE

DESIGN CAPACITY :

TREATMENT

0.95 1000 m3

IJC DESIGNATION : INDIRECT

POPULATION SERVED: 1263

1987	AVG DAY	l	5 DA	Y BOD		1	SUSPEN	IDED SOLI	DS	1	TOTAL PHO	SPHORUS
	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	0.954	I I ND	ND			l ND	ND			   ND	ND	
FEB	0.956	30.0	ND			40.0	ND			2.5	ND	
MAR	1.030	26.0	ND			25.0	ND			1.7	ND	
APR	1.438	26.0	ND			25.0	ND			1.5	ND	
MAY	0.802	62.0	10.3			83.0	37.1			4.1	0.4	
JUN	0.755	68.0	ND			49.0	ND			5.0	ND	
JUL	0.856	51.0	ND			73.0	ND			4.3	ND	
AUG	0.795	29.0	ND			37.0	ND			3.2	NC	
SEP	0.827	61.0	ND			91.0	ND			4.7	ND	
OCT	0.745	35.0	ND			27.0	ND			2.3	ND	
NOV	0.691	ND	10.7			ND	57.3			ND	0.4	
DEC	1.064 	61.0 	ND			56.0 	ND			3.7 	ND	
AVERA	GE: 0.909	45.0	10.5		7.827	   51.0	47.2 *	1	34.674	3.3	0.4	0.289
	VATIONS: 12 DANCES	10 	2			10 	2			i 10	2	
NO OF	SAMPLES	1 12	13			1 12	13			1 12	13	

COMPLIANCE :

CRITERIA :

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - 40 mg/l SS - NO \* - EXCEEDS EFFLUENT CRITERIA TP - YES TP - 1.0 mg/l ND - NO DATA

BOD - 30 mg/l

ANTICIPATED

REMEDIAL MEASURES

BOD - YES

START DATE END DATE

COMPLIANCE

ENGINEERING STUDY PHASE

88/03/31

89/09/30

MUNICIPALITY : TILBURY WEST REGION : SOUTHWEST PLANT : COMBER LAGOON DISTRICT : WINDSOR WORKS NUMBER : 110001676

OPERATING AUTHORITY : MINISTRY TREATMENT : CONVENTIONAL LAGOON SEASONAL : GOVN'T DR NO.1 TO BIG CK

PHOSPHORUS REMOVAL - BATCH MAJOR BASIN : GREAT LAKES MINOR BASIN : LAKE ERIE

WATERCOURSE

DESIGN CAPACITY : 0.40 1000 m3 IJC DESIGNATION : INDIRECT

POPULATION SERVED : 780

1987	AVG DAY		5 DA	Y BOD		1	SUSPEN	DED SOLI	DS	1 .	TOTAL PHO	SPHORUS
	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	0.329	ND	ND			l ND	ND			ND	ND	
FEB	0.302	104.0	ND			153.0	ND			6.7	ND	
MAR	0.313	137.0	ND			181.0	ND			0.7	ND	
APR	0.345	118.0	ND			117.0	ND			5.3	ND	
YAM	0.225	152.0	16.8			174.0	28.8			9.3	0.5	
JUN	0.225	119.0	ND			112.0	ND			7.3	ND	
JUL	0.220	68.0	ND			128.0	ND			6.2	ND	
AUG	0.262	109.0	ND			116.0	ND			5.7	ND	
SEP	0.365	113.0	ND			154.0	ND			9.2	ND	
OCT	0.239	ND	ND			ND	ND			ND	ND	
VON	0.314	ND	13.2			ND	27.2			ND	0.7	
DEC	0.426 	124.0 	ND			93.0	ND			6.9	ND	
AVERA	GE: 0.297	116.0	15.0	<u></u>	3.962	136.0	28.0		7.511	1 6.4	0.6	0.170
	VATIONS:12 DANCES	9 	2			9	2			9 	2	22 112
NO OF	SAMPLES	1 10	10			1 11	10			111	10	

COMPLIANCE : CRITERIA : NOTE : BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS BOD - YES BOD - 30 mg/l

TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - YES SS - 40 mg/l \* - EXCEEDS EFFLUENT CRITERIA

TP - YES TP - 1.0 mg/l ND - NO DATA

ANTICIPATED REMEDIAL MEASURES START DATE END DATE COMPLIANCE

ENGINEERING STUDY PHASE 88/03/01 89/09/30

MUNICIPALITY : TILLSONBURG REGION : SOUTHWEST
PLANT : TILLSONBURG WPCP DISTRICT : LONDON NORTH

WORKS NUMBER: 110000757 OPERATING AUTHORITY: MINISTRY

TREATMENT : CONVENTIONAL ACTIVATED SLUDGE WATERCOURSE : BIG OTTER CREEK

PHOSPHORUS REMOVAL-CONTINUOUS MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ERIE

DESIGN CAPACITY : 5.90 1000 m3 IJC DESIGNATION : INDIRECT

POPULATION SERVED : 9519

	!	12 221	ļ		EV EVE		1				! .		
1987		G DAY	ļ		Y BOD		ļ		DED SOLI			TOTAL PHO	
	F	LOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(100	00 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	i	4.357	1 161.0	4.4		19.171	   185.0	7.9		34.420	7.2	0.5	1.961
FEB	1	4.231	116.0	5.4		22.847	167.0	5.9		24.963	6.4	0.2	1.015
MAR	1	4.491	119.0	1.5		6.736	160.0	8.4		37.724	6.8	0.5	2.021
APR	Ì	4.776	101.0	1.9		9.074	154.0	5.1		24.358	5.6	0.4	1.672
MAY	1	4.104	142.0	2.5		10.260	200.0	8.3		34.063	6.4	0.5	2.175
JUN	1	4.190	106.0	2.0		8.380	175.0	5.3		22.207	6.2	0.7	3.059
JUL	1	3.951	147.0	1.7		6.717	207.0	5.1		20.150	8.4	0.5	1.817
AUG	l	4.065	94.0	2.4		9.756	181.0	6.0		24.390	6.8	0.5	2.602
SEP	1	4.057	96.0	3.0		12.171	195.0	8.2		33.267	5.7	0.4	1.542
OCT	1	3.911	128.0	1.4		5.475	255.0	6.5		25.422	7.6	0.5	2.073
NOV	1	4.146	86.0	1.5		6.219	122.0	6.0		24.876	2.2	0.5	1.949
DEC	i	4.633	121.0 	2.3		10.656	238.0 	6.1		28.261	5.8 	0.4	2.039
AVERA	GE:	4.243	118.0	2.5		10.622	187.0	6.6		27.842	6.3	0.5	1.994
OBSER EXCEE		ONS:12	12 	12			12	12			12	12	
NO OF	SAME	PLES	23	24			53	53			24	24	

COMPLIANCE : CRITERIA : NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

BOD - YES BOD - 25 mg/L TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - YES SS - 25 mg/l \* - EXCEEDS EFFLUENT CRITERIA

TP - YES TP - 1.0 mg/L ND - NO DATA

ANTICIPATED

REMEDIAL MEASURES START DATE END DATE COMPLIANCE

MUNICIPALITY : TUCKERSMITH

PLANT : VAN ASTRA WPCP

WORKS NUMBER : 110003013

TREATMENT : CONVENTIONAL ACTIVATED SLUDGE

PHOSPHORUS REMOVAL-CONTINUOUS

REGION

: SOUTHWEST

DISTRICT

: OWEN SOUND

OPERATING AUTHORITY : MINISTRY

WATERCOURSE

: MUN DRAIN TO BAYFIELD R.

MAJOR BASIN

: GREAT LAKES MINOR BASIN : LAKE HURON

1.40 1000 m3

DESIGN CAPACITY : POPULATION SERVED :

1000

IJC DESIGNATION : INDIRECT

1987	AVG	DAY	1	5 DA	Y BOD		1	SUSPEN	DED SOLI	DS	Ι .	TOTAL PHO	SPHORUS
	FLC	W	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000	m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	(	.474	62.0	6.9		3.271	89.0	11.3		5.356	3.6	0.8	0.360
FEB	0	.302	62.0	4.8		1.450	107.0	11.6		3.503	3.2	0.7	0.199
MAR	0	.629	30.0	9.6		6.038	48.0	12.4		7.800	1.6	0.6	0.396
APR	1 0	0.440	98.0	5.8		2.552	216.0	11.8		5.192	4.9	1.2 *	0.53
MAY	0	345	ND	ND		ND	ND	ND		ND	ND	ND	ND
JUN	1 0	290	153.0	2.1		0.609	372.0	3.5		1.015	8.8	1.9 *	0.55
JUL	1 0	284	90.0	2.6		0.738	120.0	8.8		2.499	1 4.6	0.6	0.17
AUG	1 0	302	170.0	2.1		0.634	443.0	9.1		2.748	6.6	0.7	0.20
SEP	1 0	318	170.0	2.9		0.922	411.0	11.4		3.625	7.7	1.2 *	0.36
OCT	1 (	.528	119.0	3.7		1.954	121.0	11.2		5.914	5.5	0.8	0.40
NOV	1 ;	1.060	56.0	7.5		7.950	77.0	15.8		16.748	2.8	1.0	1.01
DEC	 	1.089	66.0	7.1		7.732	165.0	9.7		10.563	2.4	0.6	0.66
AVERA	· · ·	0.505	1 08 0			7.077	1 107 0		***		<u> </u>		
			98.0	5.0		3.077	3 3 550	10.6		5.906		0.9	0.44
	VATIONS	5:12	11	11			11	11			11	11	
	DANCES		1 2	•			1				l	3	
NO OF	SAMPLE	:5	24	24			24	24			24	24	

COMPLIANCE :

CRITERIA :

NOTE :

BOD - YES SS - YES

TP - NO

BOD - 25 mg/l

SS - 25 mg/l

TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

\* - EXCEEDS EFFLUENT CRITERIA

TP - 1.0 mg/l

ND - NO DATA

ANTICIPATED COMPLIANCE

REMEDIAL MEASURES

START DATE END DATE

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

EXISTING EQUIPMENT/OPERATION IS BEING MODIFIED

88/01/31

DISTRICT - COUTHWEST MUNICIPALITY : WALKERTON : OWEN SOUND PLANT : WALKERTON WPCP OPERATING AUTHORITY : MUNICIPAL WORKS NUMBER : 120001489

TREATMENT : CONVENTIONAL ACTIVATED SLUDGE WATERCOURSE : SAUGEEN RIVER

MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE HURON PHOSPHORUS REMOVAL - CONTINUOUS

IJC DESIGNATION : INDIRECT DESIGN CAPACITY : 7.54 1000 m3

POPULATION SERVED : 4591

4007			F 54	v . BOB		!	CHOREN	DED 001 1		! .		
1987	AVG DAY			Y BOD	07000000	1		DED SOLI		1: :: :: :: :: :: :: :: :: :: :: :: :: :	TOTAL PHO	
	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
		1 (0)	20.7		404 (70	1 (04 0						
JAN	4.900	406.0	20.7		101.430	Mark Color	11.3		55.370	■ Name Name	1.3 *	6.370
FEB	4.724	261.0	20.5		96.842	232.0	10.2		48.185	6.6	1.4 *	6.614
MAR	6.239	221.0	22.1		137.882	201.0	12.2		76.116	5.0	1.1 *	6.925
APR	7.361	56.0	9.8		72.138	157.0	12.2		89.804	4.4	8.5 *	62.569
MAY	5.671	241.0	6.7		37.996	343.0	8.8		49.905	5.7	1.0	5.671
JUN	5.837	257.0	6.4		37.357	251.0	8.7		50.782	5.9	0.6	3.502
JUL	5.230	299.0	9.0		47.070	340.0	8.8		46.024	7.1	0.6	2.877
AUG	4.519	382.0	12.3		55.584	379.0	9.8		44.286	6.4	0.8	3.796
SEP	4.779	472.0	25.8		123.298	371.0	12.3		58.782	7.8	1.1 *	5.018
OCT	4.292	452.0	15.5		66.526	314.0	8.1		34.765	7.4	0.5	2.318
NOV	5.357	330.0	10.3		55.177	214.0	6.6		35.356	6.0	0.9	4.821
DEC	5.324	298.0	11.8		62.823	227.0	6.1		32.476	5.7	0.6	3.194
	1	<u> </u>				<u> </u>				!		
AVERA	GE: 5.353	306.0	14.2		74.510	292.0	9.6		51.821	6.2	1.5 *	9.473
OBSER	VATIONS: 12	1 12	12			1 12	12			12	12	
EXCEE	DANCES	ĺ				ĺ				i	5	
NO OF	SAMPLES	24	24			67	238			42	46	
		1				i				İ		

COMPLIANCE : CRITERIA : NOTE :

> BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS BOD - 25 mg/l

BOD - YES TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - YES SS - 25 mg/l \* - EXCEEDS EFFLUENT CRITERIA

TP - NO TP - 1.0 mg/l ND - NO DATA

ANTICIPATED REMEDIAL MEASURES START DATE END DATE COMPLIANCE

FINAL DESIGN PHASE 89/12/31 UNDER CONSTRUCTION 89/12/31

MUNICIPALITY: WALLACEBURG REGION
PLANT: WALLACEBURG WPCP DISTRICT

PLANT : WALLACEBURG WPCP DISTRICT : SARNIA
WORKS NUMBER : 110000784 OPERATING AUTHORITY : MINISTRY

TREATMENT : CONVENTIONAL ACTIVATED SLUDGE WATERCOURSE : SYDENHAM RIVER

PHOSPHORUS REMOVAL-CONTINUOUS MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ERIE

: SOUTHWEST

DESIGN CAPACITY : 6.81 1000 m3 IJC DESIGNATION : INDIRECT

POPULATION SERVED : 9200

The second second		700											
1987	AVG DAY	i		5 DA	Y BOD		! 	SUSPEN	DED SOLI	DS	]	TOTAL PHO	SPHORUS
	FLOW	- 1	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/	d) (	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	1   7.06	1 2	88.0	8.0		56.496	   150.0	14.0		98.868	3.3	0.3	2.119
FEB	6.70	9	143.0	15.0		100.635	164.0	9.0		60.381	1 4.5	0.6	3.958
MAR	6.94	2	113.0	13.8		95.800	169.0	9.0		62.478	9.8	1.0	6.942
APR	6.57	5	82.0	7.0		46.025	154.0	7.0		46.025	3.1	0.4	2.827
MAY	5.26	2	106.0	7.0		36.834	188.0	8.0		42.096	6.1	0.5	2.841
JUN	5.83	9	98.0	13.0		75.907	202.0	12.0		70.068	5.1	0.7	4.321
JUL	6.21	9	102.0	10.0		62.190	173.0	9.0		55.971	5.7	0.7	4.353
AUG	7.32	B	109.0	9.0		65.952	187.0	8.0		58.624	4.2	1.0	7.255
SEP	6.94	3	117.0	12.0		83.316	220.0	9.0		62.487	9.3	8.0	5.346
OCT	6.82	0	110.0	19.0		129.580	203.0	12.0		81.840	7.4	0.9	6.002
NOV	7.17	1	98.0	11.0		78.881	214.0	9.0		64.539	9.7	0.9	6.526
DEC	8.28 	В   	115.0	8.0		66.304	162.0 	9.0		74.592	10.2 	0.7	6.050
AVERA	GE: 6.76	3	107.0	11.1		74.827	1 182.0	9.6		64.831	1 6.5	0.7	4.878
	VATIONS: 12 DANCES	į	12	12			12 	12			12	12	
	SAMPLES	i	58	60			253	257			22	37	

COMPLIANCE : CRITERIA : NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
BOD - YES BOD - 25 mg/l TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - YES SS - 25 mg/l \* - EXCEEDS EFFLUENT CRITERIA

TP - YES TP - 1.0 mg/l ND - NO DATA

REMEDIAL MEASURES

START DATE END DATE COMPLIANCE

ENFORCING BY-LAWS 88/01/01 88/13/31

REGION DISTRICT MUNICIPALITY : WATFORD : SOUTHWEST PLANT : WATFORD LAGOON : SARNIA

WORKS NUMBER : 110001809 OPERATING AUTHORITY : MINISTRY

WATERCOURSE : BEAR CREEK TREATMENT : CONVENTIONAL LAGOON SEASONAL MAJOR BASIN PHOSPHORUS REMOVAL - BATCH : GREAT LAKES

MINOR BASIN : LAKE ERIE

IJC DESIGNATION : INDIRECT DESIGN CAPACITY : 1.05 1000 m3 POPULATION SERVED: 1434

FOFUL	ATTOM SERVED	. 143	170									
1987	AVG DAY	i	5 DA	Y BOD		l I	SUSPEN	IDED SOLI	DS		TOTAL PHO	SPHORUS
	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	0.441	1 114.0	ND			99.0	ND			6.6	ND	
FEB	0.430	101.0	ND			71.0	ND			6.0	ND	
MAR	0.517	100.0	ND			126.0	ND			6.2	ND	
APR	0.531	236.0	ND			308.0	ND			11.4	ND	
MAY	0.427	128.0	ND			67.0	ND			6.7	ND	
JUN	0.417	122.0	ND			225.0	ND			7.9	ND	
JUL	0.405	125.0	ND			94.0	ND			7.1	ND	
AUG	0.409	142.0	ND			130.0	ND			7.0	CИ	
SEP	0.470	103.0	ND			54.0	ND			5.9	ND	
OCT	0.507	132.0	3.2			69.0	8.8			8.3	0.4	
NOV	0.538	125.0	ND			109.0	ND			7.8	ND	
DEC	0.630 	124.0 	ND			94.0 	ND			6.6 	ND	
AVERA	GE: 0.477	129.0	3.2		1.622	120.0	8.8		4.462	7.3	0.4	0.183
	VATIONS:12 DANCES	12 	1			12 	1			12 	1	
NO OF	SAMPLES	23	2			23	2			24	2	
		1				i				i	_	

CRITERIA : COMPLIANCE : NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

BOD - YES BOD - 30 mg/l SS - 40 mg/l TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - YES \* - EXCEEDS EFFLUENT CRITERIA

ND - NO DATA TP - YES TP - 1.0 mg/l

ANTICIPATED

REMEDIAL MEASURES START DATE END DATE COMPLIANCE

ENGINEERING STUDY PHASE 88/03/01 89/09/30

MUNICIPALITY : WEST LORNE

PLANT : WEST LORNE LAGOON

DISTRICT : LONDON SOUTH

WORKS NUMBER: 110001337

OPERATING AUTHORITY : MINISTRY

TREATMENT : CONVENTIONAL LAGOON SEASONAL PHOSPHORUS REMOVAL - BATCH

MAJOR BASIN

WATERCOURSE : ZOLLER DRAIN : GREAT LAKES

REGION

MINOR BASIN : LAKE ERIE

: SOUTHWEST

DESIGN CAPACITY :

0.67 1000 m3

POPULATION SERVED: 1220

IJC DESIGNATION : INDIRECT

 	 5.0	
 	 _	

1987	A	VG DAY	1	5 DA	Y BOD		İ	SUSPEN	DED SOLI	DS	i ·	TOTAL PHO	SPHORUS
	1	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(10	00 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	İ	0.620	1 125.0	ND			91.0	ND			   5.9	ND	
FEB	1	0.556	593.0	ND			568.0	ND			4.7	ND	
MAR	1	0.589	119.0	ND			259.0	ND			5.5	ND	
APR	1	0.625	84.0	7.3			230.0	30.0			4.2	0.5	
MAY	1	0.484	214.0	4.0			175.0	4.9			6.7	0.2	
JUN	1	0.471	200.0	ND			376.0	ND			8.1	ND	
JUL	1	0.436	121.0	ND			276.0	ND			7.7	ND	
AUG	1	0.564	126.0	ND			157.0	ND			6.5	ND	
SEP	1	0.639	79.0	ND			125.0	ND			4.6	ND	
OCT	1	0.555	ND	10.2			ND	67.4			ND	0.4	
NOV	1	0.651	131.0	ND			114.0	ND			5.9	ND	
DEC	1	0.786	13.0	ND			10.0	ND			1.4	ND	
	1		!								İ		
AVERA	GE:	0.581	1 164.0	7.2		4.053	216.0	34.1		19.510	   5.6	0.4	0.202
OBSER'		ONS:12 ES	11 	3			11 	3			į 11	3	
NO OF	SAM	PLES	1 11	15			1 11	15			1 11	15	

COMPLIANCE :

CRITERIA :

NOTE :

BOD - YES SS - YES

BOD - 30 mg/l SS - 40 mg/L

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

\* - EXCEEDS EFFLUENT CRITERIA

TP - YES

TP - 1.0 mg/l

ND - NO DATA

ANTICIPATED

REMEDIAL MEASURES

START DATE END DATE

COMPLIANCE

UNDER DISCUSSION WITH MUNICIPALITY

89/01/01

89/06/30

90/01/31

MUNICIPALITY : WESTMINSTER

PLANT : SOUTHLAND PARK WPCP

WORKS NUMBER : 120000818

TREATMENT : EXTENDED AERATION

PHOSPHORUS REMOVAL - CONTINUOUS

REGION : SOUTHWEST
DISTRICT : LONDON SOUTH

OPERATING AUTHORITY : MINISTRY

WATERCOURSE : DINGMAN CREEK

MAJOR BASIN

: GREAT LAKES

MINOR BASIN : LAKE ERIE

IJC DESIGNATION : INDIRECT

DESIGN CAPACITY : 0.26 1000 m3

POPULATION SERVED : 540

1987	AVG DAY		5 DA	Y BOD		1	SUSPEN	DED SOLI	DS	1 1	TOTAL PHO	SPHORUS
	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/d)	)  (mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	l   0.099	1 129.0	2.5		0.248	   165.0	1.1		0.109	   7.1	0.4	0.038
FEB	0.100	147.0	1.6		0.160	130.0	1.0		0.100	9.4	0.3	0.032
MAR	0.105	94.0	1.8		0.189	124.0	1.8		0.189	7.5	0.3	0.035
APR	0.111	76.0	2.6		0.289	119.0	5.2		0.577	4.3	0.4	0.046
MAY	0.103	191.0	2.6		0.268	169.0	0.6		0.062	6.3	0.9	0.092
JUN	0.113	110.0	2.4		0.271	172.0	1.2		0.136	4.5	0.6	0.071
JUL	0.122	74.0	1.0		0.122	78.0	0.4		0.049	4.9	0.7	0.082
AUG	0.127	73.0	1.0		0.127	96.0	0.5		0.064	3.8	0.7	0.090
SEP	0.113	67.0	2.1		0.237	175.0	2.1		0.237	4.3	0.6	0.071
OCT	0.113	112.0	2.7		0.305	119.0	1.6		0.181	5.7	0.4	0.042
NOV	0.120	39.0	0.8		0.096	49.0	0.5		0.060	3.7	0.4	0.044
DEC	0.120	166.0	1.2		0.144	219.0	1.3		0.156	10.8	0.5	0.061
	1					!				<u> </u>		
AVERA	GE: 0.112	1 106.0	1.9		0.205	1 135.0	1.4		0.160	6.0	0.5	0.059
	VATIONS:12	12	12			12	12			12	12	
	DANCES SAMPLES	24	27			l   24	27			24	27	

COMPLIANCE :

CRITERIA :

NOTE :

BOD - YES BOD - 25 mg/l SS - YES

SS - 25 mg/l

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

\* - EXCEEDS EFFLUENT CRITERIA

TP - YES TP - 1.0 mg/l ND - NO DATA

ANTICIPATED

REMEDIAL MEASURES

START DATE END DATE

COMPLIANCE

MUNICIPALITY : WESTMINSTER PLANT : WESTMINSTER WPCP

WORKS NUMBER: 110000800

TREATMENT : EXTENDED AERATION

PHOSPHORUS REMOVAL - CONTINUOUS

REGION

: SOUTHWEST

DISTRICT OPERATING AUTHORITY : MINISTRY

: LONDON SOUTH

WATERCOURSE

: DINGMAN CREEK

MAJOR BASIN

: GREAT LAKES

MINOR BASIN

: LAKE ERIE

IJC DESIGNATION : INDIRECT

DESIGN CAPACITY : 1.13 1000 m3 POPULATION SERVED :

6059

1987 | AVG DAY 5 DAY BOD SUSPENDED SOLIDS TOTAL PHOSPHORUS FLOW INF **EFF** LOAD I INF **EFF** FFF LOAD INF LOAD |(1000 m3/d) |(mg/L) (mg/L) (%REM) (kg/d) |(mg/L) (mg/L) (%REM) (kg/d) (mg/L) (mg/L) (kg/d) JAN 1.262 | 97.0 6.6 8.329 | 167.0 5.3 6.689 | 3.7 0.2 0.303 | 1.018 | 109.0 3.258 | 203.0 FEB 3.2 2.6 2.647 | 3.8 0.1 0.132 2.9 MAR 1.189 | 198.0 3.4 4.043 | 230.0 3.448 | 9.0 0.2 0.178 APR 1.354 | 103.0 3.3 4.468 | 152.0 2.1 2.843 | 4.0 0.1 0.190 | MAY 1.591 | 55.0 3.5 5.569 | 160.0 5.728 | 2.5 3.6 0.4 0.605 1.164 | 96.0 JUN 2.5 2.910 | 102.0 2.7 3.143 | 3.7 0.6 0.687 1.206 | 184.0 JUL 2.1 2.533 | 193.0 1.2 1.447 | 5.8 0.4 0.434 | 1.780 | 58.0 4.272 | 124.0 | AUG | 2.4 0.5 0.890 | 2.6 0.3 0.570 3.626 | 148.0 SEP 1.648 | 235.0 2.2 1.0 1.648 | 8.2 0.3 0.428 1.294 | 93.0 OCT 12.5 16.175 | 206.0 16.8 21.739 | 3.7 0.4 0.569 1 3.9 I NOV 1.470 | 163.0 1.8 2.646 | 468.0 5.733 |11.0 0.3 0.367 | DEC | 1.887 | 149.0 8.2 15.473 | 168.0 9.8 18.493 | 4.9 0.5 0.887 1 1 128.0 1.405 6.109 | 193.0 AVERAGE: 4.3 4.4 6.204 | 5.2 0.3 0.446 | OBSERVATIONS: 12 12 12 12 12 1 12 12 EXCEEDANCES

COMPLIANCE :

NO OF SAMPLES

CRITERIA :

24

24

NOTE :

24

BOD - YES SS - YES

TP - YES

BOD - 25 mg/l

SS - 25 mg/l TP - 1.0 mg/l TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

\* - EXCEEDS EFFLUENT CRITERIA

ND - NO DATA

24

ANTICIPATED

REMEDIAL MEASURES

START DATE END DATE

| 24

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

24

COMPLIANCE

MUNICIPALITY: WIARTON : SOUTHWEST
PLANT: WIARTON LAGOON : SOUTHWEST
COMEN SOUND

WORKS NUMBER: 110000819 OPERATING AUTHORITY: MINISTRY

TREATMENT : CONVENTIONAL LAGOON CONTINUOUS WATERCOURSE : COLPOY BAY
PHOSPHORUS REMOVAL-CONTINUOUS MAJOR BASIN : GREAT LAKES

MINOR BASIN : LAKE HURON

DESIGN CAPACITY : 2.00 1000 m3 IJC DESIGNATION : DIRECT

POPULATION SERVED : 2119

1987	AV	G DAY	1	5 DA	Y BOD		1	SUSPEN	DED SOLI	DS	1 1	TOTAL PHO	SPHORUS
	F	LOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(100	00 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	1	1.740	   84.0	6.9		12.006	l I 79.0	4.9		8.526	1 3.5	0.5	0.940
FEB	ì	1.722	78.0	7.4		12.743	92.0	6.9		11.882		0.7	1.171
MAR	i	2.856	51.0	8.7		24.847	56.0	11.0		31.416	in terminal	0.6	1.599
APR	i	2.454	38.0	13.0		31.902	39.0	25.0		61.350	1.5	0.3	0.712
MAY	i	1.662	80.0	1.1		1.828	61.0	17.0		28.254	3.2	0.6	0.997
JUN	i	1.600	71.0	10.8		17.280	104.0	3.8		6.080	3.8	1.0	1.552
JUL	İ	1.425	95.0	6.4		9.120	162.0	3.2		4.560	4.7	0.9	1.282
AUG	Ī	1.763	91.0	2.1		3.702	76.0	1.2		2.116	3.9	0.6	1.058
SEP	I	1.892	47.0	2.2		4.162	65.0	3.7		7.000	2.7	0.5	0.889
OCT	1	2.323	55.0	8.3		19.281	67.0	10.3		23.927	2.6	0.3	0.743
NOV	1	2.794	60.0	5.0		13.970	49.0	2.7		7.544	2.6	0.2	0.503
DEC	1	2.766	46.0 	5.8		16.043	40.0 	2.8		7.745	2.6 	0.2	0.415
AVERA	\GE:	2.083	66.0	6.5		13.907	74.0	7.7		16.700	3.1	0.5	0.988
OBSER		ONS:12 ES	i 12	12			12 	12			12 	12	
NO OF	SAME	PLES	1 16	17			16	17			16	17	

COMPLIANCE : CRITERIA : NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

BOD - YES BOD - 30 mg/l TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - YES SS - 40 mg/l \* - EXCEEDS EFFLUENT CRITERIA

TP - YES TP - 1.0 mg/l ND - NO DATA

ANTICIPATED

REMEDIAL MEASURES START DATE END DATE COMPLIANCE

MUNICIPALITY : WINDSOR REGION : SOUTHWEST
PLANT : LITTLE RIVER WPCP DISTRICT : WINDSOR
WORKS NUMBER : 120001096 OPERATING AUTHORITY : MUNICIPAL

TREATMENT : CONVENTIONAL ACTIVATED SLUDGE WATERCOURSE : LITTLE RIVER

PHOSPHORUS REMOVAL-CONTINUOUS MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ERIE

DESIGN CAPACITY : 36.36 1000 m3 IJC DESIGNATION : DIRECT

POPULATION SERVED: 64000

1987	AVG DAY	1	5 DA	Y BOD		1	SUSPEN	DED SOLI	DS	1	TOTAL PHO	SPHORUS
	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	33.500	1 136.0	7.0		234.500	   180.0	6.0		201.000	   4.9	0.7	22.44
FEB	31.800	163.0	9.0		286.200	184.0	9.0		286.200	6.0	0.5	16.53
MAR	34.400	132.0	5.0		172.000	168.0	8.0		275.200	5.0	0.3	11.35
APR	30.400	124.0	4.0		121.600	164.0	8.0		243.200	4.4	0.3	8.20
MAY	30.350	135.0	4.0		121.400	175.0	6.0		182.100	5.0	0.5	14.87
JUN	31.800	127.0	3.0		95.400	203.0	6.0		190.800	5.4	0.5	17.17
JUL	33.500	87.0	2.0		67.000	163.0	7.0		234.500	6.4	0.4	14.74
AUG	33.800	102.0	3.0		101.400	220.0	8.0		270.400	4.6	0.7	21.97
SEP	33.000	156.0	8.0		264.000	267.0	13.0		429.000	5.4	0.4	13.20
OCT	31.900	169.0	6.0		191.400	200.0	13.0		414.700	6.4	0.7	22.33
NOV	31.900	153.0	5.0		159.500	196.0	10.0		319.000	6.0	0.6	19.77
DEC	36.800 	90.0 	5.0		184.000	146.0 	12.0		441.600	3.4	0.4	14.35
AVERA	GE: 32.762	131.0	5.1		166.533	189.0	8.8	11111	290.642	5.2	0.5	16.41
	VATIONS:12 DANCES	12 	12			12 	12			12 	12	
NO OF	SAMPLES	336	336			336	336			336	336	

COMPLIANCE : CRITERIA : NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
BOD - YES BOD - 25 mg/l TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - YES SS - 25 mg/l \* - EXCEEDS EFFLUENT CRITERIA

TP - YES TP - 1.0 mg/l ND - NO DATA

REMEDIAL MEASURES ANTICIPATED

START DATE END DATE COMPLIANCE

FACILITY EXPANSION AND/OR UPGRADING (PHASE 1)

PLANT EXPANSION AND/OR UPGRADING (PHASE 2)

88/07/01

90/01/01

MUNICIPALITY : WINDSOR

: WESTERLY WPCP

WORKS NUMBER : 120001103

TREATMENT : PRIMARY

PLANT

PHOSPHORUS REMOVAL - CONTINUOUS

REGION

: SOUTHWEST

DISTRICT

: WINDSOR

OPERATING AUTHORITY : MUNICIPAL

WATERCOURSE

: DETROIT RIVER : GREAT LAKES

MAJOR BASIN MINOR BASIN

: LAKE ERIE

IJC DESIGNATION : DIRECT

POPULATION SERVED: 123000

DESIGN CAPACITY : 163.65 1000 m3

1987	1 4	NVG DAY	ĺ		5 DA	Y BOD		ĺ	SUSPEN	DED SOLI	DS	į į	TOTAL PH	OSPHORUS
	ĺ	FLOW	IN	(F	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(10	000 m3/d)	(mg	g/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	1	101.000	   9	91.0	31.0	66	3131.000	   109.0	21.0	81	2121.000	   4.3	0.8	82.820
FEB	1	95.000	10	04.0	25.0	76	2375.000	118.0	25.0	79	2375.000	4.2	1.0	90.250
MAR	1	108.600	9	0.0	23.0	74	2497.800	127.0	21.0	83	2280.600	4.6	0.9	93.396
APR	ı	128.600	9	96.0	26.0	73	3343.600	137.0	19.0	86	2443.400	5.0	0.7	93.878
MAY	1	112.300	1 9	73.0	25.0	73	2807.500	149.0	26.0	83	2919.800	3.9	0.7	75.241
JUN	1	148.000	1 6	55.0	19.0	71	2812.000	112.0	23.0	79	3404.000	3.1	0.6	84.360
JUL	1	142.500	7	71.0	15.0	79	2137.500	115.0	19.0	83	2707.500	3.6	0.4	59.850
AUG	1	134.400	7	70.0	19.0	73	2553.600	95.0	23.0	76	3091.200	4.2	0.5	67.200
SEP	1	126.300	7	77.0	27.0	65	3410.100	113.0	23.0	80	2904.900	4.4	0.7	83.358
OCT	1	112.900	11	19.0	31.0	74	3499.900	113.0	30.0	73	3387.000	4.7	1.0	116.287
NOV	1	122.100	8	36.0	29.0	66	3540.900	94.0	31.0	67	3785.100	4.6	1.0	125.763
DEC	l 1	148.700	7 	74.0	20.0	73	2974.000	106.0	19.0	82	2825.300	3.1 	0.4	59.480
AVERA	GE:	123.367	8	36.0	24.2	72	2923.575	116.0	23.3	79	2853.733	4.1	0.7	85.990
OBSER EXCEE		ONS:12	1	12	12			12	12			12 	12	
NO OF	SAM	IPLES	3	333	334			333	334			333	334	

COMPLIANCE :

CRITERIA :

NOTE :

BOD - YES SS - YES TP - YES

BOD - 50% ss - 70%

TP - 1.0 mg/l

TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS. \* - EXCEEDS EFFLUENT CRITERIA

ND - NO DATA

ANTICIPATED

REMEDIAL MEASURES

START DATE END DATE

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

COMPLIANCE

MUNICIPALITY : WINGHAM

PLANT : WINGHAM LAGOON

WORKS NUMBER : 110000828

TREATMENT : CONVENTIONAL LAGOON CONTINUOUS

REGION

: SOUTHWEST

DISTRICT

: OWEN SOUND

OPERATING AUTHORITY : MINISTRY

WATERCOURSE

: MAITLAND RIVER

MAJOR BASIN

: GREAT LAKES

MINOR BASIN

: LAKE HURON

DESIGN CAPACITY :

1.60 1000 m3

POPULATION SERVED :

2941

IJC DESIGNATION : INDIRECT

1987	AVG	DAY	1	5 DA	Y BOD		l	SUSPEN	DED SOLI	DS	1 1	TOTAL PHO	SPHORUS
	FLO	W	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000	m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	   1	.940	387.0	24.4		47.336	955.0	9.3		18.042	   6.0	3.0	5.742
FEB	1	.860	660.0	19.5		36.270	306.0	13.9		25.854	10.1	3.0	5.487
MAR	2	2.320	93.0	37.0		85.840	135.0	10.5		24.360	S 40 1000	3.2	7.424
APR	2	2.520	92.0	15.3		38.556	77.0	17.5		44.100	4.1	2.4	6.048
MAY	1	.610	89.0	27.0		43.470	108.0	19.6		31.556	4.4	2.6	4.18
JUN	1 1	.780	101.0	15.9		28.302	132.0	20.0		35.600	6.6	2.6	4.55
JUL	1	.650	46.0	10.6		17.490	56.0	19.4		32.010	2.9	2.1	3.39
AUG	2	2.090	53.0	20.5		42.845	59.0	46.8		97.812	3.4	2.6	5.32
SEP	1 1	.862	78.0	17.2		32.026	94.0	30.7		57.163	4.4	3.0	5.49
OCT	1 1	.852	91.0	22.0		40.744	43.0	28.6		52.967	3.3	2.7	5.07
NOV	2	2.834	179.0	18.7		52.996	99.0	50.0		141.700	5.7	2.1	5.95
DEC	3 	3.095	ND	28.2		87.279	ND	11.4		35.283	ND	2.4	7.27
AVERA	GE: 2	2.118	   170.0	21.4		46.096	188.0	23.1		49.704	1 5.1	2.6	5.49
OBSER	VATIONS DANCES		11	12			11	12		47.1.04	11	12	3.49
	SAMPLE	S	11	14			   11	14			   11	14	

COMPLIANCE :

CRITERIA :

NOTE :

BOD - YES

BOD - 30 mg/l

SS - YES TP - YES SS - 40 mg/l TP - NONE

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

\* - EXCEEDS EFFLUENT CRITERIA

ND - NO DATA

ANTICIPATED

REMEDIAL MEASURES

START DATE END DATE

COMPLIANCE

ENVIRONMENTAL ASSESSMENT PROCESS

TREATMENT : CONVENTIONAL ACTIVATED SLUDGE WATERCOURSE : THAMES RIVER

PHOSPHORUS REMOVAL-CONTINUOUS MAJOR BASIN : GREAT LAKES MINOR BASIN : LAKE ERIE

DESIGN CAPACITY : 36.36 1000 m3 IJC DESIGNATION : INDIRECT

POPULATION SERVED : 26183

1987	A	VG DAY	1	5 DA	Y BOD		1	SUSPEN	DED SOLI	DS	1	TOTAL PHO	SPHORUS
	1 9	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(10	00 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN		19.480	]   98.0	10.0		194.800	   164.0	11.0		214.280	1 4 3	0.7	13.636
FEB	i	16.910	99.0			148.808		15.1			4.9	0.8	14.204
MAR	i	20.970	82.0			197.118		11.6		243.252	P 255	0.9	18.244
APR	i	25.280	81.0	10.7		270.496	157.0	22.1		558.688	4.8	0.9	22.752
MAY	Ì	19.450	103.0	10.3		200.335	209.0	12.0		233.400	3.7	0.8	14.78
JUN	1	18.940	83.0	9.6		181.824	222.0	14.5		274.630	4.7	0.9	16.66
JUL	1	20.660	64.0	10.7		221.062	136.0	11.6		239.656	4.3	0.8	15.90
AUG	1	18.290	107.0	7.9		144.491	269.0	10.5		192.045	4.7	0.9	16.82
SEP	1	17.820	80.0	8.6		153.252	230.0	9.6		171.072	5.7	1.0	17.82
OCT	1	18.020	100.0	7.8		140.556	237.0	11.4		205.428	4.9	0.9	15.49
NOV	1	18.930	91.0	10.1		191.193	226.0	12.1		229.053	5.3	0.9	17.03
DEC	I	22.640	83.0	8.1		183.384	159.0	12.5		283.000	4.8	0.9	20.15
	1		1								1		
AVERA	GE:	19.783	1 89.0	9.3		185.610	l l 190.0	12.8		258.320	1 4.7	0.9	16.960
OBSER	VATIO	ONS:12	1 12	12			12	12			12	12	
EXCEE	DANC	ES	Î				1				1		
NO OF	SAMI	PLES	46	49			55	53			45	52	

COMPLIANCE : CRITERIA : NOTE :

BOD - YES BOD - 25 mg/L TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - YES SS - 25 mg/L \* - EXCEEDS EFFLUENT CRITERIA

TP - YES TP - 1.0 mg/l ND - NO DATA

ANTICIPATED

REMEDIAL MEASURES START DATE END DATE COMPLIANCE

MUNICIPALITY : ZURICH REGION : SOUTHWEST
PLANT : ZURICH LAGOON DISTRICT : OWEN SOUND

WORKS NUMBER : 110001444 OPERATING AUTHORITY : MINISTRY

TREATMENT : CONVENTIONAL LAGOON SEASONAL WATERCOURSE : MUN DRAIN TO L. HURON

MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE HURON

DESIGN CAPACITY : 0.44 1000 m3 IJC DESIGNATION : INDIRECT

POPULATION SERVED: 800

1987	AV	G DAY	1	5 DA	Y BOD		1	SUSPEN	DED SOLI	DS	1	TOTAL PHO	SPHORUS
	F	LOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(100	0 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d
JAN	1	0.490	69.0	ND			1 135.0	ND			1 4.3	ND	
FEB	l	0.458	120.0	ND			275.0	ND			9.2	ND	
MAR	1	0.582	93.0	ND			192.0	ND			5.9	ND	
APR	1	0.535	134.0	16.7			165.0	38.1			8.5	2.2	
MAY	1	0.452	ND	ND			ND	ND			ND	ND	
JUN	1	0.465	226.0	ND			104.0	ND			7.3	ND	
JUL	1	0.471	111.0	ND			128.0	ND			5.3	ND	
AUG	I	0.441	132.0	ND			203.0	ND			6.6	ND	
SEP	l	0.430	124.0	ND			159.0	ND			6.4	ND	
OCT	1	0.478	120.0	7.2			108.0	9.9			7.4	1.4	
NOV	1	0.549	79.0	ND			90.0	ND			5.0	ND	
DEC	!	0.596	174.0	ND			173.0	ND			8.4	ND	
	l/		<del>†                                     </del>				<del>-</del>				1		
AVERA	GE:	0.496	126.0	12.0		6.188	158.0	24.0		12.558	6.8	1.8	0.92
	VAT IO DANCE	NS:12 S	11 	2			11	2			11 	2	
NO OF	SAMP	LES	11	7			1 11	7			i 11	7	

COMPLIANCE : CRITERIA : NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
BOD - YES BOD - 30 mg/L TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - YES SS - 40 mg/l \* - EXCEEDS EFFLUENT CRITERIA

TP - YES TP - NONE ND - NO DATA

ANTICIPATED

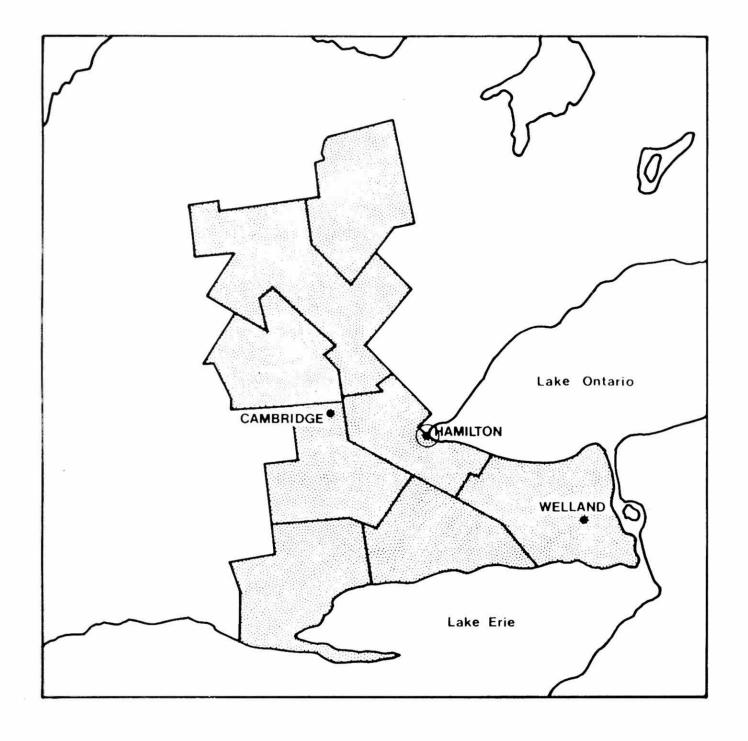
REMEDIAL MEASURES START DATE END DATE COMPLIANCE

UNDER DISCUSSION WITH MUNICIPALITY



# **West Central Region**







# **West Central Region**



# REGIONAL OFFICE

Hamilton 119 King St. West P.O. Box 2112 L8N 3Z9 (416) 521-7640

# DISTRICT OFFICES

Cambridge 400 Clyde Road P.O. Box 219 N1R 5T8 (519) 653-1511

Haldimand-Norfolk/Brant 119 King St. West P.O. Box 2112 L8N 3Z9 (416) 521-7732

Hamilton-Wentworth 119 King St. West P.O. Box 2112 L8N 3Z9 (416) 521-7732

Welland 637 - 641 Niagara St. West L3C 1L9 (416) 384-9896

WEST-CENTRAL SUMMARY - 1987

TREATMENT TYPE		NUMBER			DRAULIC LOADIN APACITY 1000M3	
	MINISTRY	MUNICIPAL	TOTAL	MINISTRY	MUNICIPAL	TOTAL
Communal Septic Tank	0	1	1	.000	.227	.227
Primary	1	2	3	4.091	74.554	78.645 (17.300
Conventional Activated Sludge	13	11	24	361.225	670.716	1,031.942 (227.000
Modified Activated Sludge	0	0	0	.000	.000	.000 000.)
Contact Stabilization	0	0	0	.000	.000	.000 000.)
Extended Aeration	6	2	8	11.715	6.950	18.665 (4.106
Trickling Filter	0	0	0	.000	.000	.000 000.)
High Rate	1	0	1	9.319	.000	9.319 (2.050
Oxidation Ditch	4	0	4	4.509	.00	4.509 (.992
Aerated Lagoon	1	0	1	.995	.000	.995 (.219
Conventional Lagoon Continuous	0	1	1	.000	2.291	2.291 (.504
Conventional Lagoon Seasonal	5	2	7	3.254	1.732	4.986 (1.097
Conventional Lagoon Annual	2	0	2	.650	.000	.650 (.143
Lagoon and Spray	0	0	0	.000	.000	.000 (.000.)
Aerated Cell Plus Lagoon	2	2	4	4.864	4.977	9.842 (2.165
Exfiltration Lagoon	0	0	0	.000	.000	.000 (.000.)
TOTALS	35	21	56	400.625 (88.127)	761.450 (167.499)	1,162.075

10<sup>3</sup>m/d: THOUSANDS OF CUBIC METRES PER DAY migd: MILLION IMPERIAL GALLONS PER DAY

CONVERSION FACTOR  $10^3 \text{ m}^3/\text{d} = .220 \text{ MIGD}$ 

01307-PDR.45

MUNICIPALITY: ARTHUR REGION: WEST CENTRAL
PLANT: ARTHUR LAGOON
DISTRICT: CAMBRIDGE

WORKS NUMBER : 110000882 OPERATING AUTHORITY : MINISTRY

TREATMENT : CONVENTIONAL LAGOON SEASONAL WATERCOURSE : CONESTOGA RIVER

PHOSPHORUS REMOVAL - BATCH MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ERIE

DESIGN CAPACITY: 0.98 1000 m3 IJC DESIGNATION : INDIRECT

POPULATION SERVED : 1674

			l				l i						
1987	AV	G DAY	1	5 DA	Y BOD		ľ	SUSPEN	DED SOLI	DS		TOTAL PHO	SPHORUS
	F	LOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(100	00 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	1	1.046	1 166.0	ND			505.0	ND			5.3	ND	
FEB		0.951	140.0	ND			68.0	ND			4.3	ND	
MAR	1	1.604	101.0	ND			34.0	ND			3.2	ND	
APR	1	1.500	91.0	12.4			104.0	24.8			7.0	0.4	
MAY	1	0.923	164.0	ND			90.0	ND			3.1	ND	
JUN	1	0.892	202.0	ND			113.0	ND			5.0	ND	
JUL	ŀ	1.050	27.0	ND			41.0	ND			2.1	ND	
AUG	l	0.967	ND	ND			ND	ND			ND	ND	
SEP		0.887	166.0	ND			109.0	ND			5.5	ND	
OCT	1	0.956	88.0	3.9			73.0	6.9			5.7	0.5	
NOV	i	1.256	75.0	13.9			65.0	42.9			3.0	0.6	
DEC	l I	1.335	90.0 	ND			76.0 	ND			5.4 	ND	
AVERA	GE:	1.114	119.0	10.1		13.262	116.0	24.9		32.559	1 4.5	0.5	0.59
OBSER EXCEE		ONS:12 ES	11 	3			11 	3			i 11 i	3	
NO OF	SAMI	PLES	1 11	23			1 11	23			i 11	14	

COMPLIANCE : CRITERIA : NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
BOD - YES BOD - 30 mg/l TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - YES SS - 40 mg/l \* - EXCEEDS EFFLUENT CRITERIA

TP - YES TP - 1.0 mg/l ND - NO DATA

ANTICIPATED REMEDIAL MEASURES START DATE END DATE COMPLIANCE FINAL DESIGN PHASE 88/01/01 88/12/31 UNDER CONSTRUCTION 88/11/01 89/11/30 90/01/31 **ENVIRONMENTAL ASSESSMENT PROCESS** 87/09/01 88/03/31 90/01/31 COLLECTION SYSTEM DEFICIENCY UNDER STUDY 86/01/01 87/12/01

REGION DISTRICT : WEST CENTRAL MUNICIPALITY : BRANTFORD

PLANT : AIRPORT WPCP (DISCHARGE TO A TILE FIELD) : HALDIMAND-NORFOLK/BRANT

WORKS NUMBER : 120004798 OPERATING AUTHORITY : MUNICIPAL

WATERCOURSE : NO DISC.TO SURFACE WATER TREATMENT : COMMUNAL SEPTIC TANK

MAJOR BASIN : GREAT LAKES MINOR BASIN : LAKE ERIE

IJC DESIGNATION : DIRECT DESIGN CAPACITY : 0.00 1000 m3

POPULATION SERVED : 0

1987	AV	DAY	Î	5 DA	Y BOD		i	SUSPEN	DED SOLI	DS	i :	TOTAL PHO	SPHORUS
	F	LOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(100	0 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
									.2.		I		
JAN	l	ND	ND	ND	0	ND	ND	ND	0	ND	ND	ND	ND
FEB	1	ND	ND	ND	0	ND	ND	ND	0	ND	ND	ND	ND
MAR	1	ND	ND	ND	0	ND	ND	ND	0	ND	ND	ND	ND
APR	1	ND	ND ND	ND	0	ND	ND	ND	0	ND	ND	ND	ND
MAY	1	ND	ND	ND	0	ND	ND	ND	0	ND	ND	ND	ND
JUN	1	ND	ND ND	ND	0	ND	ND	ND	0	ND	ND	ND	ND
JUL	Ì	ND	ND	ND	0	ND	ND	ND	0	ND	ND	ND	ND
AUG	i	ND	ND ND	ND	0	ND	ND	ND	0	ND	ND	ND	ND
SEP	i	ND	ND	ND	0	ND	ND	ND	0	ND	ND	ND	ND
OCT	i	ND	ND	ND	0	ND	ND	ND	0	ND	ND	ND	ND
NOV	i	ND	ND	ND	0	ND	ND	ND	0	ND	ND	ND	ND
DEC	i	ND	ND	ND	0	ND	ND	ND	0	ND	ND	ND	ND
	į		<u> </u>				<u>i</u>				İ		
AVERA	GE:	0.000	0.0	0.0	0	0.000	0.0	0.0	0	0.000	   0.0	0.0	0.000
OBSER	VATIO	NS: 0	i o	0			0	0			i o	0	
EXCEE			i				i				i	11-27	
NO OF	SAMP	LES	i o	0			i o	0			i o	0	
			i				i				i	₹	

COMPLIANCE : CRITERIA : NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

BOD - 30% BOD - NO DISCHARGE TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - NO DISCHARGE SS - 50% \* - EXCEEDS EFFLUENT CRITERIA

TP - NO DISCHARGE TP - NONE ND - NO DATA

ANTICIPATED

REMEDIAL MEASURES START DATE END DATE COMPLIANCE

MUNICIPALITY : BRANTFORD

PLANT : BRANTFORD WPCP

WORKS NUMBER : 110000043

TREATMENT : CONVENTIONAL ACTIVATED SLUDGE

PHOSPHORUS REMOVAL - CONTINUOUS

REGION : WEST CENTRAL

DISTRICT

: HALDIMAND - NORFOLK/BRANT

OPERATING AUTHORITY : MINISTRY

WATERCOURSE

: GRAND RIVER : GREAT LAKES

MAJOR BASIN MINOR BASIN

: LAKE ERIE

IJC DESIGNATION : INDIRECT

DESIGN CAPACITY : 84.10 1000 m3 POPULATION SERVED : 73000

   A\	/G DAY	1	5 DA	Y BOD			SUSPEN	DED SOLI	DS	] ] 1	TOTAL PHO	SPHORUS
	LOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
(100	00 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
l l	48.700	   181.0	14.9		725.630	   214.0	13.3		647.710	l   6.3	1.0	48.700
ì	46.900	224.0	15.9		745.710	219.0	12.5		586.250	6.2	1.1 *	51.590
ĺ	52.400	186.0	15.1		791.240	227.0	9.9		518.760	7.1	0.9	47.160
1	61.300	183.0	11.0		674.300	183.0	10.3		631.390	5.6	0.8	49.040
1	57.300	231.0	16.0		916.800	260.0	14.0		802.200	4.4	1.1 *	63.030
1	59.026	239.0	17.8		1050.663	264.0	19.5		1151.007	6.2	1.1 *	64.929
1	52.300	213.0	6.1		319.030	249.0	8.5		444.550	6.1	0.9	47.070
1	48.700	233.0	13.2		642.840	245.0	9.5		462.650	7.7	0.9	43.830
1	48.000	242.0	11.3		542.400	262.0	9.2		441.600	6.6	0.8	38.400
1	47.900	303.0	16.8		804.720	277.0	11.1		531.690	8.3	1.0	47.900
1	50.300	306.0	14.1		709.230	229.0	9.7		487.910	7.0	1.0	50.300
1	52.400	249.0	8.1		424.440	205.0	7.3		382.520	6.3	0.9	47.160
1		1								Į		
GE:	52.102	232.0	13.4		695.584	1 236.0	11.2		590.686	   6.5	1.0	49.926
VATI	ONS:12	1 12	12			1 12	12			l 12		.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
DANC	ES	i sound				i -				i	3	
SAM	PLES	85	84			224	223			77	214	
		48.700   46.900   52.400   61.300   57.300   59.026   52.300   48.700   48.000   47.900   50.300	FLOW   INF  (1000 m3/d)  (mg/L)   48.700   181.0   46.900   224.0   52.400   186.0   61.300   183.0   57.300   231.0   59.026   239.0   52.300   213.0   48.700   233.0   48.700   233.0   47.900   303.0   50.300   306.0   52.400   249.0   GE: 52.102   232.0   VATIONS:12   12	FLOW   INF   EFF   (1000 m3/d)   (mg/L) (mg/L) (mg/L)     48.700   181.0   14.9   46.900   224.0   15.9   52.400   186.0   15.1   61.300   183.0   11.0   57.300   231.0   16.0   59.026   239.0   17.8   52.300   213.0   6.1   48.700   233.0   13.2   48.000   242.0   11.3   47.900   303.0   16.8   50.300   306.0   14.1   52.400   249.0   8.1	FLOW   INF EFF   (1000 m3/d)   (mg/L) (mg/L) (mg/L) (%REM)   48.700   181.0   14.9   46.900   224.0   15.9   52.400   186.0   15.1   61.300   183.0   11.0   57.300   231.0   16.0   59.026   239.0   17.8   52.300   213.0   6.1   48.700   233.0   13.2   48.000   242.0   11.3   47.900   303.0   16.8   50.300   306.0   14.1   52.400   249.0   8.1     GE: 52.102   232.0   13.4   VATIONS:12   12   12   DANCES	FLOW   INF	FLOW   INF   EFF   LOAD   INF   (1000 m3/d)   (mg/L)   (mg/L)   (%REM)   (kg/d)   (mg/L)   (mg/L)   (%REM)   (kg/d)   (mg/L)   (mg/L)   (48.700   181.0   14.9   725.630   214.0   46.900   224.0   15.9   745.710   219.0   52.400   186.0   15.1   791.240   227.0   61.300   183.0   11.0   674.300   183.0   57.300   231.0   16.0   916.800   260.0   59.026   239.0   17.8   1050.663   264.0   52.300   213.0   6.1   319.030   249.0   48.700   233.0   13.2   642.840   245.0   48.000   242.0   11.3   542.400   262.0   47.900   303.0   16.8   804.720   277.0   50.300   306.0   14.1   709.230   229.0   52.400   249.0   8.1   424.440   205.0   GE:   52.102   232.0   13.4   695.584   236.0   VATIONS:12   12   12   12   12   12   12   12	FLOW   INF   EFF   LOAD   INF   EFF   (1000 m3/d)   (mg/L)   (mg/L)   (%REM)   (kg/d)   (mg/L)   (mg	FLOW   INF   EFF   LOAD   INF   EFF   (1000 m3/d)   (mg/L)   (mg/L)   (%REM)   (kg/d)   (mg/L)   (mg/L)   (%REM)   (kg/d)   (mg/L)   (mg/L)   (%REM)   (kg/d)   (mg/L)   (mg/L)   (%REM)   (kg/d)   (mg/L)   (mg/L)   (%REM)   (kg/d)   (mg/L)   (mg/L)   (%REM)   (kg/d)   (mg/L)   (mg/L)   (%REM)   (kg/d)   (mg/L)   (mg/L)   (%REM)   (kg/d)   (mg/L)   (mg/L)   (%REM)   (kg/d)   (mg/L)   (mg/L)   (%REM)   (kg/d)   (mg/L)   (mg/L)   (%REM)   (kg/d)   (mg/L)   (mg	FLOW	FLOW	FLOW

COMPLIANCE :

CRITERIA :

NOTE :

BOD - YES BOD - 25 mg/l SS - YES SS - 25 mg/l TP - NO TP - 1.0 mg/l

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

\* - EXCEEDS EFFLUENT CRITERIA

ND - NO DATA

ANTICIPATED

REMEDIAL MEASURES

START DATE END DATE

COMPLIANCE

MUNICIPALITY : BRANTFORD

: WEST CENTRAL REGION DISTRICT

PLANT

: CAINSVILLE LAGOON (SERVES INDUSTRY)

: HALDIMAND-NORFOLK/BRANT

WORKS NUMBER : 120004716

TREATMENT : CONVENTIONAL LAGOON SEASONAL

OPERATING AUTHORITY : MUNICIPAL

PHOSPHORUS REMOVAL - CONTINUOUS

WATERCOURSE MAJOR BASIN

: FAIRCHILD CREEK

: GREAT LAKES : LAKE ERIE

MINOR BASIN

POPULATION SERVED : 65

DESIGN CAPACITY : 0.16 1000 m3 IJC DESIGNATION

: INDIRECT

1987	AVO	DAY	I	5 DA	Y BOD		1	SUSPEN	DED SOLI	DS	1	TOTAL PHO	SPHORUS
	FI	.OW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000	m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN		ND	ND	ND			ND	ND			ND	ND	
FEB	1	ND	ND	ND			ND	ND			ND	ND	
MAR	1	ND	ND	ND			ND	ND			ND	ND	
APR	1	ND	ND	ND			ND	ND			ND	ND	
MAY	1	ND	ND	ND			ND	ND			ND	ND	
JUN	1	ND	ND	ND			ND	ND			ND	ND	
JUL	1	ND	ND	ND			ND	ND			ND	ND	
AUG	1	ND	ND	ND			ND	ND			ND	ND	
SEP	I	ND	ND	ND			ND	ND			ND	ND	
OCT	1	ND	ND	ND			ND	ND			ND	ND	
NOV	ŀ	ND	ND	15.1			ND	21.3			ND	0.5	
DEC	!	ND	ND.	ND			ND	ND			ND	ND	
	L		<del>-</del>				1				-		
AVERA	GE:	0.000	0.0	15.1		0.000	0.0	21.3		0.000	0.0	0.5	0.00
OBSER	VATIO	NS: 0	0	1			0	1			0	1	
EXCEE	DANCE	5	1				1				1		
NO OF	SAMP	LES .	0	1			0	1			0	1	

COMPLIANCE :

CRITERIA :

NOTE :

BOD - YES

BOD - 30 mg/l SS - 40 mg/l TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - YES

\* - EXCEEDS EFFLUENT CRITERIA

TP - YES TP - 1.0 mg/l ND - NO DATA

ANTICIPATED

REMEDIAL MEASURES

START DATE END DATE

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

COMPLIANCE

MUNICIPALITY : CAMBRIDGE PLANT : GALT WPCP

WORKS NUMBER : 110000276

TREATMENT : CONVENTIONAL ACTIVATED SLUDGE

PHOSPHORUS REMOVAL - CONTINUOUS

REGION : WEST CENTRAL DISTRICT : CAMBRIDGE OPERATING AUTHORITY : MINISTRY WATERCOURSE : GRAND RIVER

MAJOR BASIN : GREAT LAKES MINOR BASIN : LAKE ERIE IJC DESIGNATION : INDIRECT

DESIGN CAPACITY : 38.64 1000 m3

POPULATION SERVED: 44966

1987	AVG DAY	1	5 DA	Y BOD		1	SUSPEN	DED SOLI	DS	1 '	TOTAL PHO	SPHORUS
	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	   28.820	1 172.0	12.7		366.014	207.0	18.9		544.698	   5.9	0.6	17.292
FEB	29.230	159.0	15.5		453.065	183.0	20.0		584.600	6.8	0.7	20.46
MAR	31.650	170.0	10.0		316.500	183.0	14.5		458.925	7.4	0.7	22.15
APR	34.893	134.0	11.7		408.248	167.0	13.8		481.523	5.6	0.7	24.42
MAY	31.409	163.0	9.7		304.667	167.0	11.3		354.922	5.4	0.6	18.84
JUN	29.750	143.0	10.1		300.475	178.0	12.1		359.975	6.1	0.8	23.80
JUL	30.127	173.0	13.7		412.740	171.0	12.6		379.600	5.9	0.7	21.08
AUG	32.840	138.0	10.5		344.820	145.0	15.1		495.884	5.8	0.9	29.55
SEP	33.604	156.0	12.1		406.608	171.0	13.9		467.096	5.7	0.9	30.24
OCT	31.560	159.0	13.4		422.904	199.0	18.0		568.080	6.7	0.8	25.24
NOV	31.079	190.0	14.9		463.077	198.0	18.4		571.854	6.9	0.7	21.75
DEC	30.530 	172.0 	15.0		457.950	190.0 	17.0		519.010	4.9	0.7	21.37
AVERA	GE: 31.291	161.0	12.4		388.089	180.0	15.5		482.181	6.1	0.7	23.02
	VATIONS:12 DANCES	12 	12			12 	12			12	12	
	SAMPLES	123	119			225	338			1117	227	

COMPLIANCE :

CRITERIA :

TP - 1.0 mg/l

NOTE :

BOD - YES BOD - 25 mg/l SS - YES SS - 25 mg/l

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

\* - EXCEEDS EFFLUENT CRITERIA

ND - NO DATA

REMEDIAL MEASURES

TP - YES

START DATE END DATE

ANTICIPATED COMPLIANCE

MUNICIPALITY : CAMBRIDGE REGION : WEST CENTRAL
PLANT : HESPELER WPCP DISTRICT : CAMBRIDGE
WORKS NUMBER : 110001033 OPERATING AUTHORITY : MINISTRY
TREATMENT : HIGH RATE WATERCOURSE : SPEED RIVER

PHOSPHORUS REMOVAL-CONTINUOUS MAJOR BASIN : GREAT LAKES

DESIGN CAPACITY: 9.31 1000 m3 HINOR BASIN : LAKE ERIE

POPULATION SERVED: 10110

1987	AVG	DAY	ì	5 DA	Y BOD		1	SUSPEN	DED SOLI	DS	1 1	OTAL PHO	SPHORUS
	FL	OW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000	m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	l İ	4.920	1 112.0	17.7		87.084	   163.0	16.3		80.196	5.6	0.9	4.280
FEB	Ì	4.980	121.0	19.3		96.114	201.0	20.9		104.082	5.6	1.0	4.930
MAR	l	5.440	117.0	16.9		91.936	183.0	15.5		84.320	4.4	0.8	4.080
APR	1	6.250	117.0	14.5		90.625	157.0	25.8		161.250	5.1	0.9	5.875
MAY	1	5.140	84.0	24.9		127.986	142.0	19.9		102.286	4.6	1.0	4.986
JUN	1	5.110	183.0	14.3		73.073	121.0	15.6		79.716	5.8	0.8	4.292
JUL	l	5.360	143.0	9.6		51.456	115.0	8.6		46.096	2.8	0.5	2.57
AUG	l	5.390	125.0	5.2		28.028	314.0	11.0		59.290	4.6	0.8	4.528
SEP	1	5.400	131.0	14.7		79.380	149.0	12.1		65.340	5.5	0.9	4.80
OCT	1	4.870	155.0	10.5		51.135	131.0	17.2		83.764	6.2	0.7	3.16
NOV	1	5.420	135.0	25.4		137.668	163.0	28.3		153.386	6.0	2.5 *	13.279
DEC	 	5.250	93.0 	16.5		86.625	109.0 	18.1		95.025	6.3 	1.9 *	10.02
AVERA	GE:	5.294	126.0	15.8		83.426	162.0	17.4		92.896	5.2	1.0	5.569
	VATION		12	12			12	12			12	12	
	DANCES		1 49	43			l I 48	47			1 49	2 65	

COMPLIANCE: CRITERIA: NOTE:

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

BOD - YES BOD - 25 mg/l TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - YES SS - 25 mg/l \* - EXCEEDS EFFLUENT CRITERIA

TP - NO TP - 1.0 mg/l ND - NO DATA

MUNICIPALITY : CAMBRIDGE PLANT

: PRESTON WPCP WORKS NUMBER: 110000622

TREATMENT : CONVENTIONAL ACTIVATED SLUDGE

PHOSPHORUS REMOVAL - CONTINUOUS

REGION

: WEST CENTRAL

DISTRICT

: CAMBRIDGE

OPERATING AUTHORITY : MINISTRY

WATERCOURSE : GRAND RIVER

MAJOR BASIN MINOR BASIN : GREAT LAKES

: LAKE ERIE

IJC DESIGNATION : INDIRECT

DESIGN CAPACITY :

16.86 1000 m3

POPULATION SERVED: 19673

FOFUL	ATTON SERVED	. 1701	3									
1987	   AVG DAY	l	5 DA	Y BOD			SUSPEN	IDED SOLI	DS	l .	TOTAL PHO	SPHORUS
	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	8.520	588.0	10.8		92.016	1233.0	16.0		136.320	5.1	0.6	5.112
FEB	8.300	527.0	15.1		125.330	691.0	15.2		126.160	4.3	0.6	4.897
MAR	9.310	476.0	13.0		121.030	565.0	11.2		104.272	5.0	0.7	6.238
APR	10.090	480.0	10.7		107.963	411.0	12.1		122.089	3.1	0.5	4.742
MAY	8.470	745.0	16.0		135.520	586.0	18.1		153.307	6.0	0.9	7.454
JUN	8.250	580.0	5.7		47.025	442.0	9.8		80.850	5.5	0.8	6.847
JUL	7.880	362.0	7.7		60.676	263.0	10.4		81.952	5.1	0.5	3.546
AUG	8.800	249.0	18.4		161.920	238.0	15.8		139.040	4.3	0.4	3.168
SEP	8.740	509.0	6.6		57.684	316.0	18.3		159.942	1 4.0	0.7	5.856
OCT	8.190	620.0	12.0		98.280	332.0	23.7		194.103	3.9	0.7	5.487
NOV	8.340	543.0	11.1		92.574	334.0	11.2		93.408	6.5	0.7	5.421
DEC	8.550 	541.0 	8.8		75.240	399.0	9.4		80.370	7.0 	0.6	5.301
AVERAC	GE: 8.620	518.0	11.3		97.938	1 484.0	14.3		122.651	15.0	0.6	5.339
OBSERV	VATIONS: 12	12	12			12	12			1 12	12	7.55
EXCEED	DANCES	İ				i	3.4. <del>4.</del> 2			i		
NO OF	SAMPLES	75	75			369	382			102	107	
		1				i				1	1818.1	

COMPLIANCE :

CRITERIA :

NOTE :

BOD - YES SS - YES

TP - YES

BOD - 25 mg/l

SS - 25 mg/l TP - 1.0 mg/l

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

\* - EXCEEDS EFFLUENT CRITERIA

ND - NO DATA

REMEDIAL MEASURES

START DATE END DATE

ANTICIPATED COMPLIANCE

MUNICIPALITY : DELHI

PLANT : DELHI WPCP

WORKS NUMBER : 120001425

TREATMENT : CONVENTIONAL ACTIVATED SLUDGE

PHOSPHORUS REMOVAL - CONTINUOUS

REGION

: WEST CENTRAL

DISTRICT

: HALDIMAND-NORFOLK/BRANT

OPERATING AUTHORITY : MINISTRY

WATERCOURSE MAJOR BASIN

: BIG CREEK

: GREAT LAKES

MINOR BASIN

: LAKE ERIE

DESIGN CAPACITY : 3.18 1000 m3

IJC DESIGNATION : INDIRECT

1987	AVG DAY	I	5 DA	Y BOD		1	SUSPEN	DED SOLI	DS	1	TOTAL PHO	SPHORUS
	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d
		1					200		ONN MESSAGE		8 5	
JAN	2.240	160.0	5.7		12.768	166.0	6.6		14.784	8.2	0.2	0.336
FEB	2.100	167.0	6.0		12.600	157.0	7.7		16.170	7.2	0.2	0.462
MAR	2.210	145.0	10.2		22.542	131.0	9.7		21.437	7.7	0.3	0.552
APR	2.340	180.0	6.4		14.976	158.0	5.4		12.636	1 7.0	0.2	0.398
MAY	2.310	117.0	8.6		19.866	124.0	6.0		13.860	6.3	0.1	0.139
JUN	2.210	462.0	6.4		14.144	230.0	3.8		8.398	8.4	0.1	0.287
JUL	2.150	104.0	2.8		6.020	97.0	4.9		10.535	5.6	0.1	0.279
AUG	2.150	104.0	10.0		21.500	94.0	2.1		4.515	8.6	0.1	0.129
SEP	2.300	127.0	20.0		46.000	115.0	8.2		18.860	7.1	0.3	0.621
OCT	2.270	178.0	12.0		27.240	137.0	6.4		14.528	111.5	0.4	0.863
NOV	2.390	148.0	12.8		30.592	114.0	7.3		17.447	110.6	0.5	1.076
DEC	2.470 	123.0 	8.4		20.748	115.0 	6.6		16.302	100000000000000000000000000000000000000	0.2	0.519
AVERA	GE: 2.262	168.0	9.1		20.750	1 136.0	6.2		14.123	7.8	0.2	0.477
		100										

COMPLIANCE :

**EXCEEDANCES** 

NO OF SAMPLES

CRITERIA :

12

12

12

NOTE :

12

12

12

12

BOD - YES

OBSERVATIONS:12 | 12

BOD - 25 mg/l

TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS. \* - EXCEEDS EFFLUENT CRITERIA

SS - YES TP - YES

SS - 25 mg/l TP - 1.0 mg/l

ND - NO DATA

ANTICIPATED

REMEDIAL MEASURES

START DATE END DATE

| 12

1 12

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

1

1

12

12

COMPLIANCE

MUNICIPALITY : DRAYTON

PLANT : DRAYTON LAGOON

WORKS NUMBER : 120001782

TREATMENT : CONVENTIONAL LAGOON ANNUAL

PHOSPHORUS REMOVAL - CONTINUOUS

: WEST CENTRAL

DISTRICT

: CAMBRIDGE

OPERATING AUTHORITY : MINISTRY

WATERCOURSE MAJOR BASIN

: CONESTOGO RIVER

: GREAT LAKES

MINOR BASIN

: LAKE ERIE

DESIGN CAPACITY : POPULATION SERVED : 0.55 1000 m3

0

IJC DESIGNATION : INDIRECT

	T =												
1987	   A\	G DAY	1	5 DA	Y BOD		İ	SUSPEN	DED SOLI	DS	<u>.</u>	TOTAL PHO	SPHORUS
	F	LOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(100	00 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
144		0.143	   452.0	NO.			1 500 0				ļ	VIII SEE	
JAN	!		¥ 20=273	ND			590.0	ND			11.2	ND	
FEB	!	0.181	1000.0	ND			680.0	ND			11.6	ND	
MAR	1	0.256	748.0	ND			988.0	ND			6.0	ND	
APR	1	0.224	587.0	ND			624.0	ND			11.6	ND	
MAY	1	0.192	161.0	ND			187.0	ND			8.7	ND	
JUN	1	0.205	219.0	ND			175.0	ND			[11.1	ND	
JUL	1	0.216	175.0	ND			107.0	ND			4.2	ND	
AUG	1	0.219	40.0	ND			ND	ND			3.8	ND	
SEP	1	0.206	ND	ND			ND	ND			ND	ND	
OCT	1	0.234	581.0	ND			350.0	ND			10.5	ND	
NOV	1	0.273	211.0	2.6			452.0	11.6			8.0	0.1	
DEC		0.266	ND	ND			ND	ND			ND	ND	
AVERA	GE:	0.218	417.0	2.6		0.710	1 461.0	11.6		3.167	8.7	0.1	0.033
OBSER	VATIO	NS:12	1 10	1			9	1		31.0	1 10	1	3.033
EXCEE	DANCE	s	i				i				1		
NO OF	SAME	PLES	1 10	13			9	12			1 10	4	
			ì				i				II.		

COMPLIANCE :

CRITERIA :

NOTE :

BOD - YES

BOD - 30 mg/l

TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS. \* - EXCEEDS EFFLUENT CRITERIA

SS - YES TP - YES

SS - 40 mg/l TP - 1.0 mg/l

ND - NO DATA

REMEDIAL MEASURES

START DATE END DATE

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

ANTICIPATED COMPLIANCE

MUNICIPALITY : DUNDAS

PLANT : DUNDAS KING ST.WPCP

WORKS NUMBER : 120001372

TREATMENT : CONVENTIONAL ACTIVATED SLUDGE

PHOSPHORUS REMOVAL - CONTINUOUS

EFFLUENT POLISHING

DESIGN CAPACITY : 18.18 1000 m3

POPULATION SERVED: 19501

: WEST CENTRAL

DISTRICT

: HAMILTON

OPERATING AUTHORITY : MUNICIPAL

WATERCOURSE

: COOTES PARADISE

MAJOR BASIN

: GREAT LAKES

MINOR BASIN : LAKE ONTARIO

IJC DESIGNATION : INDIRECT

1987	AV	G DAY	1	5 DA	Y BOD		I	SUSPEN	DED SOLI	DS	1	TOTAL PHO	SPHORUS
	F	LOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(100	0 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	! 	12.644	227.0	6.0		75.864	   148.0	3.0		37.932	   5.7	0.2	2.529
FEB	į .	11.181	170.0	5.0		55.905	M. commence and	4.0		44.724	15.8	0.4	4.472
MAR	ı	12.013	135.0	5.0		60.065	142.0	5.0		60.065	5.2	0.2	2.403
APR	1	15.173	90.0	5.0		75.865	105.0	4.0		60.692	4.0	0.3	4.552
MAY	1	11.076	104.0	4.0		44.304	130.0	8.0		88.608	5.6	1.4 *	15.506
JUN	1	10.665	216.0	6.0		63.990	225.0	4.0		42.660	7.6	0.7	7.465
JUL	1	11.114	67.0	5.0		55.570	137.0	12.0		133.368	5.3	0.3	3.334
AUG	1	14.092	141.0	10.0		140.920	158.0	4.0		56.368	5.5	0.4	5.355
SEP	1	13.108	193.0	11.0		144.188	176.0	4.0		52.432	7.0	0.4	5.243
OCT	1	12.288	195.0	5.0		61.440	185.0	2.0		24.576	6.7	0.4	4.915
NOV	1	14.149	208.0	12.0		169.788	182.0	3.2		45.277	6.1	0.5	7.074
DEC	1	15.799	160.0 	8.0		126.392	136.0 	3.0		47.397	4.7	0.3	4.740
AVERA	GE:	12.775	1 159.0	6.8		89.524	157.0	4.7		57.842	1 5.8	0.5	E 473
OBSER	VATIO	NS:12	1 12	12		0,1,524	1 12	12		37.042	12	12	5.632
EXCEE			1				1				l	1	
NO OF	SAMP	LES	82	179			83	180			83	187	

COMPLIANCE :

CRITERIA :

NOTE :

BOD - YES

BOD - 25 mg/l

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - YES TP - NO

SS - 25 mg/l TP - 1.0 mg/l

\* - EXCEEDS EFFLUENT CRITERIA

ND - NO DATA

ANTICIPATED

REMEDIAL MEASURES

START DATE END DATE

COMPLIANCE

PROCESS UPGRADING

88/09/31

MUNICIPALITY : DUNNVILLE REGION : WEST CENTRAL DISTRICT

PLANT : DUNNVILLE WPCP : HALDIMAND-NORFOLK/BRANT

WORKS NUMBER: 120001443 OPERATING AUTHORITY : MINISTRY TREATMENT : CONVENTIONAL ACTIVATED SLUDGE WATERCOURSE : GRAND RIVER PHOSPHORUS REMOVAL - CONTINUOUS MAJOR BASIN : GREAT LAKES

MINOR BASIN : LAKE ERIE DESIGN CAPACITY : 7.72 1000 m3 IJC DESIGNATION : INDIRECT

POPULATION SERVED : 5471

N 20 H20			F15 - 5150.085				r						
1987	I   AV	G DAY	İ	5 DA	Y BOD		! 	SUSPEN	DED SOLI	DS		TOTAL PHO	SPHORUS
	F	LOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(100	0 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	1	4.970	49.0	7.2		35.784	   206.0	12.1		60.137	5.4	0.8	4.125
FEB	1	4.480	240.0	7.5		33.600	269.0	28.9		129.472	7.9	0.9	3.853
MAR	1	5.100	514.0	9.9		50.490	310.0	26.5		135.150	5.1	0.8	3.978
APR	l .	5.980	32.0	20.7		123.786	168.0	26.3		157.274	4.0	0.8	4.963
MAY	1	3.800	293.0	30.4		115.520	192.0	15.3		58.140	4.1	0.8	2.850
JUN	1	3.900	53.0	60.1		234.390	256.0	14.4		56.160	6.1	0.8	3.003
JUL	1	4.200	94.0	6.3		26.460	140.0	11.4		47.880	5.2	0.8	3.402
AUG	1	4.700	49.0	8.4		39.480	170.0	11.2		52.640	4.4	0.7	3.196
SEP	1	5.260	68.0	8.3		43.658	201.0	12.3		64.698	4.1	0.8	4.208
OCT	1	4.700	207.0	13.1		61.570	176.0	16.0		75.200	4.1	0.9	4.37
NOV	1	4.400	142.0	5.6		24.640	223.0	15.0		66.000	4.4	0.7	3.124
DEC	]	5.800	153.0 	36.0		208.800	205.0 	21.4		124.120	6.7 	0.8	4.350
AVERA	GE:	4.774	158.0	17.8		83.182	210.0	17.6		85.573	   5.1	0.8	3.785
OBSER			12 	12			12 	12			1 12	12	SE.78. TO
NO OF	SAMP	LES	15	14			91	70			83	69	

COMPLIANCE : CRITERIA : NOTE :

> BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS BOD - YES

BOD - 25 mg/l TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - 25 mg/l SS - YES \* - EXCEEDS EFFLUENT CRITERIA

TP - YES TP - 1.0 mg/l ND - NO DATA

ANTICIPATED REMEDIAL MEASURES START DATE END DATE COMPLIANCE

MUNICIPALITY: DUNNVILLE REGION: WEST CENTRAL

PLANT : OSWEGO PARK LAGOON DISTRICT : HALDIMAND-NORFOLK/BRANT

WORKS NUMBER: 110003068 OPERATING AUTHORITY: MINISTRY

TREATMENT : CONVENTIONAL LAGOON ANNUAL WATERCOURSE : OSWEGO CREEK

MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ERIE

DESIGN CAPACITY : 0.09 1000 m3 IJC DESIGNATION : INDIRECT

POPULATION SERVED : 250

							1						
1987	AVG	DAY	1	5 DA	Y BOD		1	SUSPEN	DED SOLI	DS	1	TOTAL PHO	SPHORUS
	FL	.OW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000	m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	j I	0.170	1 141.0	ND			   118.0	ND			7.8	ND	
FEB	•	0.260	158.0	ND			123.0	ND			9.3	ND	
MAR	ĺ	0.290	130.0	ND			225.0	ND			12.2	ND	
APR	1	0.190	187.0	19.5			57.0	28.6			8.6	4.8	
MAY	1	0.150	334.0	ND			284.0	ND			17.2	ND	
JUN	1	0.300	220.0	ND			137.0	ND			9.4	ND	
JUL	1	0.130	190.0	ND			310.0	ND			13.2	ND	
AUG	1	0.170	ND	ND			ND	ND			ND	ND	
SEP	1	0.180	186.0	ND			99.0	ND			13.8	ND	
OCT	1	0.140	253.0	ND			269.0	ND			16.8	ND	
NOV		0.190	ND	10.6			ND	40.8			ND	6.1	
DEC	1	0.110	98.0 	ND			57.0 	ND			5.0	ND	
AVERA	GE:	0.190	190.0	15.1		2.860	168.0	34.7		6.593	111.3	5.5	1.036
	VATION	S:12	10	2			1 10	2		5.575	1 10	2	1.030
EXCEE	DANCES		l				1				i		
NO OF	SAMPL	ES	10	6			10	6			i 10	6	
			ľ				1				i		

COMPLIANCE : CRITERIA : NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

BOD - YES BOD - 30 mg/l TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - YES SS - 40 mg/l \* - EXCEEDS EFFLUENT CRITERIA

TP - YES TP - NONE ND - NO DATA

REMEDIAL MEASURES ANTICIPATED

START DATE END DATE COMPLIANCE

MUNICIPALITY : ELORA

PLANT : ELORA WPCP

WORKS NUMBER : 110000178

TREATMENT : EXTENDED AERATION

PHOSPHORUS REMOVAL - CONTINUOUS

: WEST CENTRAL

DISTRICT

: CAMBRIDGE OPERATING AUTHORITY : MUNICIPAL

WATERCOURSE

MAJOR BASIN

: GRAND RIVER

: GREAT LAKES

MINOR BASIN

: LAKE ERIE

DESIGN CAPACITY : 3.06 1000 m3

POPULATION SERVED: 3129

IJC DESIGNATION : INDIRECT

1987	AVG DA	1	1	5 DA	Y BOD		l	SUSPEN	DED SOLI	DS	1 '	TOTAL PHO	SPHORUS
	FLOW		INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3,	/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d
JAN	   1.0	77	1 113.0	5.9		6.354	1 139.0	4.9		5.277	7.9	0.3	0.32
FEB	1.05	55	89.0	3.1		3.270	125.0	5.8		6.119	5.3	0.3	0.31
MAR	1.30	80	113.0	32.0		41.856	174.0	12.0		15.696	4.9	0.3	0.39
APR	1.4	53	476.0	2.5		3.633	163.0	7.1		10.316	20.5	0.7	1.01
MAY	0.9	21	131.0	3.4		3.369	127.0	5.2		5.153	7.7	0.5	0.49
JUN	0.9	72	125.0	5.4		5.249	107.0	3.4		3.305	6.4	0.9	0.87
JUL	1.0	19	ND	ND		ND	111.0	3.0		3.057	ND	0.2	0.20
AUG	1.04	47	ND	ND		ND	143.0	3.0		3.141	ND	0.2	0.20
SEP	1.10	00	ND	ND		ND	131.0	2.3		2.530	ND	0.2	0.22
OCT	1.09	97	100.0	0.9		0.987	153.0	2.5		2.743	9.5	0.5	0.54
NOV	1.00	56	168.0	0.9		0.959	166.0	3.6		3.838	8.9	0.7	0.74
DEC	1.1! 	53	150.0 	7.6		8.763	151.0 	4.0		4.612	7.6 	0.4	0.46
AVERA	GE: 1.1	12	163.0	6.9		8.271	141.0	4.7		5.482	8.7	0.4	0.48
	VATIONS:1	2	9 	9			12 	12			,   9 	12	
NO OF	SAMPLES		9	22			162	162			9	163	

COMPLIANCE :

CRITERIA :

NOTE :

BOD - YES

BOD - 25 mg/l

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - YES TP - YES

SS - 25 mg/l TP - 1.0 mg/l

\* - EXCEEDS EFFLUENT CRITERIA ND - NO DATA

ANTICIPATED

REMEDIAL MEASURES

START DATE END DATE

COMPLIANCE

MUNICIPALITY : FERGUS
PLANT : FERGUS WPCP
WORKS NUMBER : 110000249

TREATMENT : CONVENTIONAL ACTIVATED SLUDGE

PHOSPHORUS REMOVAL - CONTINUOUS

REGION : WEST CENTRAL
DISTRICT : CAMBRIDGE
OPERATING AUTHORITY : MINISTRY

WATERCOURSE : GRAND RIVER

MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ERIE

DESIGN CAPACITY: 5.00 1000 m3 IJC DESIGNATION: INDIRECT

POPULATION SERVED: 6050

1987	AVG DAY		5 DA	Y BOD		l	SUSPEN	DED SOLI	DS	] 1	TOTAL PHO	SPHORUS
	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	   4.048	   113.0	16.5		66.792	   109.0	21.9		88.651	   5.1	0.5	2.024
FEB	3.640	1 175.0	33.5		202 20 202 22	1 126.0	30.6		111.384	The state and	0.6	2.18
MAR	5.500	119.0	20.0		110.000	137.0	42.0		231.000	1 4.1	0.5	2.75
APR	5.810	68.0	8.4		48.804	154.0	32.1		186.501	3.1	0.5	2.90
MAY	3.700	99.0	8.8		32.560	190.0	23.0		85.100	5.1	0.6	2.22
JUN	3.550	115.0	6.2		22.010	300.0	10.3		36.565	4.1	0.4	1.42
JUL	3.413	86.0	7.7		26.280	135.0	16.2		55.291	1 4.9	0.6	2.04
AUG	3.520	130.0	8.3		29.216	193.0	29.1		102.432	5.4	0.7	2.46
SEP	3.320	87.0	6.4		21.248	218.0	30.0		99.600	5.6	0.7	2.32
OCT	3.540	127.0	7.3		25.842	204.0	25.0		88.500	5.1	0.6	2.12
NOV	4.380	143.0	23.1		101.178	206.0	39.9		174.762	5.3	0.6	2.62
DEC	5.030	128.0 	23.1		116.193	159.0 	40.4		203.212	6.6 	0.7	3.52
AVERA	GE: 4.121	1 116.0	14.1		60.172	178.0	28.4 *		121.917	5.1	0.6	2.38
	VATIONS:12	i 12	12			12 	12			12 	12	
NO OF	SAMPLES	22	23			94	279			20	385	

COMPLIANCE : CRITERIA : NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

BOD - YES BOD - 25 mg/l TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - NO SS - 25 mg/l \* - EXCEEDS EFFLUENT CRITERIA

TP - YES TP - 1.0 mg/l ND - NO DATA

ANTICIPATED START DATE END DATE REMEDIAL MEASURES COMPLIANCE 88/07/01 89/08/01 FINAL DESIGN PHASE UNDER CONSTRUCTION 89/12/01 91/06/30 91/09/30 87/11/01 88/09/30 ENVIRONMENTAL ASSESSMENT PROCESS ENFORCING BY-LAWS 87/11/01 89/01/01

MUNICIPALITY : FLAMBOROUGH REGION : WEST CENTRAL
PLANT : WATERDOWN WPCP DISTRICT : HAMILTON
WORKS NUMBER : 120005001 OPERATING AUTHORITY : MUNICIPAL

TREATMENT : CONVENTIONAL ACTIVATED SLUDGE WATERCOURSE : GRINDSTONE CREEK

PHOSPHORUS REMOVAL-CONTINUOUS MAJOR BASIN : GREAT LAKES
EFFLUENT POLISHING MINOR BASIN : LAKE ONTARIO

DESIGN CAPACITY : 2.72 1000 m3 IJC DESIGNATION : INDIRECT

POPULATION SERVED : 3900

1987	AVG DAY	1	5 DA	Y BOD		1	SUSPEN	DED SOLI	DS	1	TOTAL PHO	SPHORUS
	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	2.180	1 196.0	2.8		6.104	   156.0	0.5		1.090	   5.8	0.1	0.305
FEB	1.992	163.0	3.0		5.976	152.0	0.9		1.793	6.2	0.3	0.578
MAR	2.417	118.0	1.1		2.659	178.0	1.8		4.351	5.8	0.5	1.208
APR	3.080	101.0	2.4		7.392	158.0	1.0		3.080	5.1	0.4	1.23
MAY	2.221	130.0	1.2		2.665	147.0	0.7		1.555	6.4	0.6	1.33
JUN	2.100	175.0	3.0		6.300	187.0	4.0		8.400	5.9	1.2 *	2.52
JUL	2.021	133.0	5.0		10.105	193.0	3.0		6.063	7.5	0.8	1.61
AUG	2.105	179.0	3.3		6.946	168.0	1.6		3.368	6.1	0.8	1.68
SEP	1.951	207.0	6.6		12.877	178.0	1.0		1.951	7.9	0.8	1.56
OCT	2.092	151.0	1.7		3.556	166.0	0.8		1.674	7.1	0.6	1.25
NOV	2.147	209.0	5.8		12.453	174.0	1.3		2.791	6.2	0.5	1.07
DEC	2.618 	163.0 	2.5		6.545	136.0 	1.0		2.618	5.5	0.2	0.47
AVERA	GE: 2.244	160.0	3.2		6.965	1 166.0	1.5		3.228	1 6.3	0.6	1.236
OBSER	VATIONS:12	12	12			1 12	12			1 12	12	1.23
EXCEE	DANCES	i				i				1	1	
NO OF	SAMPLES	94	187			94	187			l 88	201	

COMPLIANCE : CRITERIA : NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
BOD - YES BOD - 25 mg/L TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - YES SS - 25 mg/L \* - EXCEEDS EFFLUENT CRITERIA

TP - NO TP - 1.0 mg/l ND - NO DATA

REMEDIAL MEASURES START DATE END DATE COMPLIANCE

NO ACTION 88/01/31

MUNICIPALITY : FORT ERIE REGION : WEST CENTRAL
PLANT : ANGER AVE.WPCP DISTRICT : WELLAND
WORKS NUMBER : 120001292 OPERATING AUTHORITY : MUNICIPAL
TREATMENT : PRIMARY WATERCOURSE : NIAGARA RIVER

PHOSPHORUS REMOVAL-CONTINUOUS MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ONTARIO

DESIGN CAPACITY : 16.36 1000 m3 IJC DESIGNATION : DIRECT

POPULATION SERVED: 13765

1987	AVG DAY	I	5 DA	Y BOD		l	SUSPEN	DED SOLI	DS	1 .	TOTAL PHO	SPHORUS
	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	l ND	   52.0	25.8	50	ND	   49.0	18.6	62	ND	1 2.7	0.6	ND
FEB	1.552	I ND	ND	0	ND	63.0	21.6	66	33.523		0.7	1.009
MAR	17.516	1 219.0	62.0	72	1085.992	65.0	30.9	52	541.244		1.2 *	20.844
APR	20.630	54.0	38.7	28	798.381	55.0	25.7	53	530.191	2.1	0.8	15.679
MAY	11.565	71.0	66.6	6	770.229	88.0	24.4	72	282.186	4.0	0.9	9.946
JUN	8.897	105.0	48.7	54	433.284	111.0	27.4	75	243.778	19.2	0.8	6.762
JUL	7.537	57.0	53.9	5	406.244	61.0	12.2	80	91.951	3.9	0.8	5.653
AUG	7.650	150.0	62.0	59	474.300	86.0	26.1	70	199.665	2.7	0.8	6.426
SEP	9.847	86.0	34.8	60	342.676	118.0	22.8	81	224.512	4.6	0.6	5.613
OCT	8.765	124.0	46.3	63	405.820	134.0	23.7	82	207.731	4.5	0.6	4.908
NOV	10.233	153.0	50.7	67	518.813	94.0	25.5	73	260.942	3.5	1.0	10.233
DEC	14.223	85.0	24.5	71	348.464	58.0	23.5	59	334.240	3.7	0.7	9.956
	1	1								1		
AVERA	GE: 10.765	1 105.0	46.7	49 *	558.420	   82.0	23.5	69 *	268.178	1 4.8	0.8	8.821
	VATIONS:11	1 11	11			1 12	12			1 12	12	
EXCEE	DANCES	İ				i				i	1	
NO OF	SAMPLES	18	17			161	158			54	60	
		ı				1				i		

COMPLIANCE : CRITERIA : NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

BOD - NO BOD - 50% TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - NO SS - 70% \* - EXCEEDS EFFLUENT CRITERIA

TP - NO TP - 1.0 mg/l ND - NO DATA

ANTICIPATED

REMEDIAL MEASURES START DATE END DATE COMPLIANCE

ENGINEERING STUDY PHASE 86/01/01 88/12/31

MUNICIPALITY : FORT ERIE : WEST CENTRAL REGION

DISTRICT PLANT : CRYSTAL BEACH WPCP : WELLAND WORKS NUMBER: 120001283 OPERATING AUTHORITY : MUNICIPAL TREATMENT : EXTENDED AERATION WATERCOURSE : LAKE ERIE

MAJOR BASIN PHOSPHORUS REMOVAL - CONTINUOUS : GREAT LAKES MINOR BASIN : LAKE ERIE

DESIGN CAPACITY : 3.88 1000 m3 IJC DESIGNATION : DIRECT

POPULATION SERVED : 4095

1987	AVG	DAY	1	5 DA	Y BOD		l	SUSPEN	DED SOLI	DS	[ 1	TOTAL PHO	SPHORUS
	FLO	W	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000	m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	1	ND	51.0	15.4		ND	   65.0	6.9		ND	   2.5	0.5	ND
FEB	1 4	.201	72.0	21.8		91.582	86.0	25.0		105.025	3.0	1.2 *	5.04
MAR	5	5.105	53.0	19.1		97.506	77.0	24.6		125.583	3.2	0.9	4.748
APR	1 6	5.260	55.0	10.8		67.608	81.0	12.8		80.128	2.3	1.0	5.94
MAY	1 3	3.778	108.0	8.1		30.602	202.0	61.8		233.480	3.9	0.8	3.098
JUN	i	ND	71.0	9.1		ND	150.0	24.4		ND	4.3	0.8	ND
JUL	1	ND	87.0	65.4		ND	160.0	60.7		ND	4.5	3.5 *	ND
AUG	1	ND	67.0	16.0		ND	103.0	16.3		ND	3.9	0.6	ND
SEP	1 3	3.314	80.0	28.4		94.118	196.0	40.0		132.560	4.8	1.4 *	4.64
OCT	1 3	2.787	120.0	18.8		52.396	152.0	43.8		122.071	5.1	2.0 *	5.43
NOV	1 :	3.060	90.0	42.3		129.438	159.0	46.7		142.902	4.5	2.1 *	6.27
DEC	! 	5.859	44.0 	22.4		131.242	69.0 	21.1		123.625	2.2	0.8	4.92
AVERA	GE:	4.295	   75.0	23.1		86.811	125.0	32.0 *	9	133.172	3.7	1.3 *	5.01
OBSER	VATION	S: 8	12	12			12	12			12	12	
EXCEE	DANCES		1				ĺ				İ	5	
NO OF	SAMPL	ES	57	57			200	188			1112	110	

COMPLIANCE : CRITERIA : NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS BOD - YES BOD - 25 mg/l TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - NO SS - 25 mg/l \* - EXCEEDS EFFLUENT CRITERIA

TP - NO TP - 1.0 mg/l ND - NO DATA

ANTICIPATED REMEDIAL MEASURES START DATE END DATE COMPLIANCE UNDER DISCUSSION WITH MUNICIPALITY 82/01/01 90/12/31 SEWER SEPARATION UNDERWAY 82/01/01 90/12/31 SEWER REPAIR UNDERWAY 82/01/01 90/12/31

: WEST CENTRAL MUNICIPALITY : FORT ERIE

DISTRICT PLANT : STEVENSVILLE-DOUGLASTOWN LAGOON : WELLAND OPERATING AUTHORITY : MUNICIPAL WORKS NUMBER: 120003110

WATERCOURSE : NIAGARA RIVER TREATMENT : CONVENTIONAL LAGOON CONTINUOUS

MAJOR BASIN : GREAT LAKES MINOR BASIN : LAKE ONTARIO

DESIGN CAPACITY : 2.29 1000 m3 IJC DESIGNATION : DIRECT

POPULATION SERVED: 1500

FLOW (1000 m3/d)	INF  (mg/L)	EFF (mg/L)		LOAD							
	(mg/L)	(mg/L)			INF	EFF		LOAD	INF	EFF	LOAD
0.550			(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
	1 69.0	4.7		2.585	   65.0	5.1		2.805	1 6 6	0.9	0.506
0.524	1 119.0	16.2		8.489		22.4		11.738	•	1.6	0.828
0.707	I ND	8.4		5.939	• 50.0000	11.0			. New York	1.7	1.230
0.745	64.0	8.8			V carron and	33.1			■ rears	1.3	0.961
0.574	115.0	12.7		7.290	303.0	8.6		4.936	4.5	1.9	1.079
0.512	226.0	17.5		8.960	102.0	17.3		8.858	6.5	0.9	0.435
0.491	34.0	21.0		10.311	57.0	15.2		7.463	2.6	1.4	0.687
0.473	198.0	2.1		0.993	127.0	1.5		0.710	ND	1.4	0.662
0.565	95.0	9.2		5.198	41.0	8.4		4.746	4.5	1.3	0.740
0.528	70.0	8.2		4.330	84.0	6.1		3.221	8.0	1.2	0.634
0.537	28.0	8.3		4.457	23.0	3.1		1.665	3.1	0.5	0.274
0.665	72.0 	3.2		2.128	36.0 	3.6		2.394	4.1	0.6	0.372
E: 0.573	99.0	10.0		5.603	   88.0	11.3		6.748	4.7	1.2	0.701
ATIONS:12	11	12			j 11	12			j 10	12	
SAMPLES	25	26			25	26			24	26	
1	0.745 0.574 0.512 0.491 0.473 0.565 0.528 0.537 0.665 E: 0.573 ATIONS:12	0.745   64.0 0.574   115.0 0.512   226.0 0.491   34.0 0.473   198.0 0.565   95.0 0.528   70.0 0.537   28.0 0.665   72.0 E: 0.573   99.0 ATIONS:12   11	0.745   64.0 8.8 0.574   115.0 12.7 0.512   226.0 17.5 0.491   34.0 21.0 0.473   198.0 2.1 0.565   95.0 9.2 0.528   70.0 8.2 0.537   28.0 8.3 0.665   72.0 3.2 E: 0.573   99.0 10.0 ATIONS:12   11 12	0.745   64.0 8.8 0.574   115.0 12.7 0.512   226.0 17.5 0.491   34.0 21.0 0.473   198.0 2.1 0.565   95.0 9.2 0.528   70.0 8.2 0.537   28.0 8.3 0.665   72.0 3.2	0.745   64.0 8.8 6.556 0.574   115.0 12.7 7.290 0.512   226.0 17.5 8.960 0.491   34.0 21.0 10.311 0.473   198.0 2.1 0.993 0.565   95.0 9.2 5.198 0.528   70.0 8.2 4.330 0.537   28.0 8.3 4.457 0.665   72.0 3.2 2.128  E: 0.573   99.0 10.0 5.603  ATIONS:12   11 12  ANCES	0.745   64.0	0.745   64.0	0.745   64.0	0.745   64.0	0.745   64.0	0.745   64.0   8.8   6.556   63.0   33.1   24.660   3.9   1.3   0.574   115.0   12.7   7.290   303.0   8.6   4.936   4.5   1.9   0.512   226.0   17.5   8.960   102.0   17.3   8.858   6.5   0.9   0.491   34.0   21.0   10.311   57.0   15.2   7.463   2.6   1.4   0.473   198.0   2.1   0.993   127.0   1.5   0.710   ND   1.4   0.565   95.0   9.2   5.198   41.0   8.4   4.746   4.5   1.3   0.528   70.0   8.2   4.330   84.0   6.1   3.221   8.0   1.2   0.537   28.0   8.3   4.457   23.0   3.1   1.665   3.1   0.5   0.665   72.0   3.2   2.128   36.0   3.6   2.394   4.1   0.6   1.2

COMPLIANCE : CRITERIA : NOTE :

> BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS BOD - YES BOD - 30 mg/l TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - YES SS - 40 mg/l \* - EXCEEDS EFFLUENT CRITERIA

TP - YES TP - NONE ND - NO DATA

ANTICIPATED

REMEDIAL MEASURES START DATE END DATE COMPLIANCE

MUNICIPALITY : GRAND VALLEY PLANT : GRAND VALLEY WPCP

WORKS NUMBER : 110000301

TREATMENT : OXIDATION DITCH

PHOSPHORUS REMOVAL-CONTINUOUS

REGION

: WEST CENTRAL

DISTRICT : CAMBRIDGE

OPERATING AUTHORITY : MINISTRY

WATERCOURSE

: GRAND RIVER : GREAT LAKES

MAJOR BASIN MINOR BASIN

IJC DESIGNATION

: LAKE ERIE

: INDIRECT

DESIGN CAPACITY :

0.60 1000 m3

PODIII ATTOM SERVED .

1020

POPUL	ATION SERVED	: 102										
1987	AVG DAY		5 DA	Y BOD		l	SUSPEN	IDED SOL I	DS		TOTAL PHO	SPHORUS
	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	   0.310	223.0	6.5		2.015	209.0	11.5		3.565	13.7	0.3	0.093
FEB	0.270	204.0	9.3		2.511	180.0	9.8		2.646	8.1	0.3	0.081
MAR	0.580	103.0	4.5		2.610	125.0	9.1		5.278	6.9	0.3	0.174
APR	0.740	127.0	3.8		2.812	76.0	7.5		5.550	1 4.7	0.4	0.296
MAY	0.338	177.0	4.9		1.656	165.0	7.1		2.400	9.1	0.6	0.203
JUN	0.284	170.0	1.8		0.511	169.0	6.2		1.761	7.3	0.6	0.170
JUL	0.295	206.0	1.5		0.443	166.0	5.9		1.740	6.1	0.4	0.118
AUG	0.263	204.0	4.1		1.078	175.0	5.6		1.473	8.8	0.4	0.105
SEP	0.267	230.0	2.4		0.641	189.0	7.2		1.922	10.4	0.5	0.134
ОСТ	0.265	275.0	1.2		0.318	177.0	5.3		1.405	1 7.4	0.4	0.106
NOV	0.310	190.0	1.9		0.589	244.0	4.5		1.395	9.3	0.4	0.124
DEC	0.443	200.0	4.2		1.861	1 106.0	10.0		4.430	4.7	0.2	0.089
AVERA	CE. 0.7//	1 102 0	7.0		1 /20	1 1/5 0	7.5		2 707	†		
AVERA		192.0	3.8		1.420	E	7.5		2.797		0.4	0.141
	VATIONS:12 DANCES	12 	12			12	12			12 	12	

COMPLIANCE :

BOD - YES

NO OF SAMPLES

CRITERIA :

28

69

NOTE :

72

71

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

| 24

157

TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - YES SS - 25 mg/l \* - EXCEEDS EFFLUENT CRITERIA

TP - YES TP - 1.0 mg/l ND - NO DATA

BOD - 25 mg/l

ANTICIPATED

REMEDIAL MEASURES START DATE END DATE COMPLIANCE

DEVELOPING NEW AND/OR IMPROVED METHODS OF DEALING WITH SLUDGE 88/02/01 88/09/30 89/01/31

REGION : WEST CENTRAL DISTRICT : WELLAND MUNICIPALITY : GRIMSBY

PLANT : BAKER ROAD WPCP WORKS NUMBER : 120001684 OPERATING AUTHORITY : MUNICIPAL

WATERCOURSE TREATMENT : CONVENTIONAL ACTIVATED SLUDGE : LAKE ONTARIO MAJOR BASIN MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ONTARIO PHOSPHORUS REMOVAL - CONTINUOUS

IJC DESIGNATION : DIRECT

DESIGN CAPACITY : 18.18 1000 m3
POPULATION SERVED : 19850

1987	I AV	G DAY	i		5 DA	Y BOD		ì	SUSPEN	DED SOLI	DS	i 1	OTAL PHO	SPHORUS
		LOW	INF		EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(100	0 m3/d)	(mg/	.) (n	ng/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	1	ND	   174	.0 2	20.7		ND	   168.0	17.9		ND	   4.6	0.6	ND
FEB	ì	10.901	258		28.5		310.678		10.7		116.641		0.4	4.360
MAR	•	12.001	219		26.3		315.626	. CA 94559	12.2		146.412	7.4	0.5	5.520
APR	i	18.202	154	.0 2	28.0		509.656	139.0	13.8		251.188	4.7	0.5	8.919
MAY	İ	9.624	247	.0 2	25.7		247.337	211.0	17.4		167.458	6.6	0.9	8.373
JUN	i	11.010	214	.0	8.0		88.080	238.0	12.1		133.221	7.7	0.5	4.955
JUL	İ	11.165	158	.0 1	14.6		163.009	375.0	8.9		99.368	6.5	0.4	4.13
AUG	1	11.206	79	.0 1	10.3		115.422	228.0	8.5		95.251	7.3	1.0	10.87
SEP	1	11.420	148	.0	9.0		102.780	232.0	8.6		98.212	6.5	8.0	9.59
OCT	1	10.733	253	.0 1	12.5		134.162	273.0	7.1		76.204	13.1	0.3	3.11
NOV	1	22.657	280	.0 3	34.0		770.338	311.0	7.0		158.599	11.2	0.3	6.57
DEC		14.606	135 	.0 2	29.9		436.719	141.0 	8.4		122.690	6.1 	0.3	4.820
AVERA	GE:	13.048	193	.0 2	20.6		290.346	1 222.0	11.0		133.204	7.3	0.5	6.47
		NS:11	1 1		12		2,31340	1 12	12			1 12	12	0.41
EXCEE			i		-			i ~	1.55			i	.=.	
NO OF	SAMP	LES	5	3	57			375	376			43	68	

NOTE : COMPLIANCE : CRITERIA :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

BOD - YES BOD - 25 mg/l TOTAL PHOSPHOR
SS - 25 mg/l \* - EXCEEDS
TP - 1.0 mg/l ND - NO DATA TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - YES \* - EXCEEDS EFFLUENT CRITERIA

TP - YES

ANTICIPATED

START DATE END DATE REMEDIAL MEASURES COMPLIANCE

MUNICIPALITY : GRIMSBY

PLANT : BIGGAR LAGOON

WORKS NUMBER : 120001256

TREATMENT : AERATED CELL PLUS LAGOON

CONTINUOUS DISCHARGE

REGION

: WEST CENTRAL

DISTRICT

: WELLAND

WATERCOURSE

OPERATING AUTHORITY : MUNICIPAL

MAJOR BASIN

: LAKE ONTARIO

: GREAT LAKES

MINOR BASIN

: LAKE ONTARIO

POPULATION SERVED :

1075

IJC DESIGNATION : DIRECT DESIGN CAPACITY : 1.13 1000 m3

1987	AVG DAY	1	5 DA	Y BOD		l	SUSPEN	DED SOLI	DS	'	TOTAL PHO	SPHORUS
	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d
JAN	l   0.872	385.0	8.3		7.238	   121.0	5.3		4.622	   3.9	1.4	1.19
FEB	0.856	305.0	14.8		12.669	94.0	5.7		4.879		1.6	1.34
MAR	0.908	191.0	19.9		18.069	67.0	6.1		5.539	5.8	1.4	1.28
APR	1.459	181.0	15.4		22.469	91.0	6.5		9.484	4.3	0.8	1.16
MAY	0.705	209.0	6.7		4.723	133.0	8.0		5.640	8.0	1.2	0.86
JUN	0.846	230.0	4.0		3.384	115.0	5.5		4.653	6.9	0.6	0.48
JUL	0.950	115.0	6.9		6.555	68.0	2.6		2.470	3.1	0.8	0.78
AUG	1.064	778.0	6.9		7.342	150.0	4.0		4.256	5.6	0.6	0.62
SEP	1.887	617.0	4.7		8.869	300.0	3.9		7.359	8.0	0.7	1.24
OCT	1.491	298.0	5.0		7.455	130.0	6.4		9.542	9.8	3.7	5.45
NOV	0.977	320.0	17.6		17.195	157.0	11.2		10.942	•	5.8	5.70
DEC	1.100 	151.0 	7.0		7.700	87.0 	10.6		11.660	4.8	3.3	3.64
AVERA	GE: 1.093	315.0	9.8		10.306	   126.0	6.3		6.754	1 5.9	1.8	1.98
	VATIONS: 12 DANCES	12	12			1 12	12			12	12	,0
	SAMPLES	111	111			l   166	164			   79	77	

COMPLIANCE :

CRITERIA :

NOTE :

BOD - YES SS - YES

TP - YES

BOD - 30 mg/l

SS - 40 mg/l TP - NONE

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

\* - EXCEEDS EFFLUENT CRITERIA

ND - NO DATA

REMEDIAL MEASURES

START DATE END DATE

ANTICIPATED COMPLIANCE

PHASING OUT EXISTING FACILITIES

90/12/31

MUNICIPALITY : GUELPH PLANT : GUELPH WPCP

WORKS NUMBER: 120003094

TREATMENT : CONVENTIONAL ACTIVATED SLUDGE

PHOSPHORUS REMOVAL - CONTINUOUS EFFLUENT POLISHING

DESIGN CAPACITY : 54.55 1000 m3

POPULATION SERVED: 82000

: WEST CENTRAL

DISTRICT : CAMBRIDGE

OPERATING AUTHORITY : MUNICIPAL WATERCOURSE : SPEED RIVER

MAJOR BASIN : GREAT LAKES MINOR BASIN : LAKE ERIE

IJC DESIGNATION : INDIRECT

1987	AVG DAY	1	5 DA	Y BOD		1	SUSPEN	DED SOLI	DS	1 '	TOTAL PHO	SPHORUS
	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	   44.025	1 163.0	17.3		761.633	l   137.0	8.0		352.200	   6.2	0.6	28.176
FEB	42.477	172.0	15.4		654.146	170.0	13.7		581.935	4.8	0.7	27.610
MAR	47.269	183.0	12.0		567.228	203.0	17.0		803.573	5.5	0.6	28.36
APR	52.848	170.0	22.0		1162.656	248.0	28.0		1479.744	1 4.2	0.8	39.63
MAY	42.916	184.0	23.0		987.068	220.0	16.0		686.656	5.7	0.8	34.33
JUN	42.229	191.0	12.3		519.417	200.0	8.9		375.838	5.4	0.6	24.49
JUL	41.560	171.0	9.6		398.976	219.0	7.9		328.324	6.1	0.4	14.96
AUG	41.618	154.0	8.5		353.753	187.0	11.8		491.092	4.8	0.4	17.89
SEP	42.724	197.0	16.0		683.584	209.0	10.9		465.692	6.7	0.5	20.93
OCT	39.735	210.0	9.5		377.483	252.0	10.3		409.271	5.1	0.6	24.63
NOV	40.838	210.0	11.6		473.721	243.0	11.0		449.218	5.4	0.7	30.22
DEC	42.787	188.0	11.5		492.050	197.0	10.3		440.706	4.6	0.5	20.53
	1	<u> </u>				l				l		
AVERA	GE: 43.419	1 183.0	14.1		619.310	   207.0	12.8		572.021	   5.4	0.6	25.98
	VATIONS:12 DANCES	12 	12			12 	12			12 	12	35.5.53
NO OF	SAMPLES	49	70			216	215			1217	215	

COMPLIANCE : CRITERIA :

BOD - YES

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

BOD - 25 mg/l SS - 25 mg/l \* - EXCEEDS EFFLUENT CRITERIA SS - YES

TP - YES TP - 1.0 mg/l ND - NO DATA

ANTICIPATED

REMEDIAL MEASURES START DATE END DATE COMPLIANCE

FUNDING UNDER REVIEW 87/04/30 88/05/31

MUNICIPALITY: HALDIMAND REGION: WEST CENTRAL

PLANT : CALEDONIA WPCP DISTRICT : HALDIMAND-NORFOLK/BRANT

WORKS NUMBER: 120001452 OPERATING AUTHORITY: MINISTRY

TREATMENT : CONVENTIONAL ACTIVATED SLUDGE WATERCOURSE : GRAND RIVER
PHOSPHORUS REMOVAL-CONTINUOUS MAJOR BASIN : GREAT LAKES

MINOR BASIN : LAKE ERIE

DESIGN CAPACITY : 2.27 1000 m3 IJC DESIGNATION : INDIRECT

POPULATION SERVED : 4237 1987 | AVG DAY 5 DAY BOD SUSPENDED SOLIDS TOTAL PHOSPHORUS FLOW INF INF FFF LOAD **EFF** LOAD INF **EFF** LOAD (1000 m3/d) |(mg/L) (mg/L) (%REM) |(mg/L) (mg/L) (%REM) (kg/d) (kg/d) (mg/L) (mg/L) (kg/d) 2.070 | 191.0 JAN 24.8 51.336 | 192.0 21.3 44.091 | 7.2 0.9 1.759 I FEB 2.027 | 142.0 10.1 20.473 | 218.0 15.8 32.027 | 7.5 0.8 1.703 | MAR 2.389 | 137.0 28.0 66.892 | 125.0 14.9 35.596 | 6.2 0.7 1.553 2.875 | 100.0 APR 26.7 76.763 | 95.0 38.9 111.837 | 4.1 1.6 \* 4.456 | MAY 2.084 | 148.0 9.1 18.964 | 169.0 13.2 27.509 | 7.0 0.6 1.292 | JUN 2.190 | 108.0 15.9 34.821 | 178.0 12.9 28.251 | 6.0 0.6 1.248 2.263 | 74.0 JUL 14.257 | 144.0 6.3 9.7 21.951 | 5.2 0.6 1.290 | 2.400 | 129.0 AUG 11.4 27.360 | 139.0 8.4 20.160 | 7.7 1.0 2.280 | SEP 2.156 | 139.0 12.0 25.872 | 117.0 7.9 17.032 | 7.3 0.7 1.401 | OCT 2.547 | 134.0 17.7 45.082 | 158.0 15.5 39.479 | 6.1 0.6 1.605 I 2.142 | 117.0 NOV 19.3 41.341 | 205.0 52.479 | 6.2 24.5 0.7 1.521 | DEC 2.587 | 112.0 11.8 30.527 | 221.0 20.6 53.292 | 6.0 0.6 1.578 | 1 ١ AVERAGE: 2.311 128.0 16.1 37.807 | 163.0 40.309 | 6.4 17.0 0.8 1.807 | | 12 OBSERVATIONS: 12 12 12 12 12 12 EXCEEDANCES 1 NO OF SAMPLES 24 29 23 28 | 23 29

COMPLIANCE : CRITERIA : NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

BOD - YES BOD - 25 mg/L TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - YES SS - 25 mg/l \* - EXCEEDS EFFLUENT CRITERIA

TP - NO TP - 1.0 mg/L ND - NO DATA

REMEDIAL MEASURES START DATE END DATE COMPLIANCE

ENGINEERING STUDY PHASE FINAL DESIGN PHASE UNDER CONSTRUCTION CONSTRUCTION COMPLETED

MUNICIPALITY : HALDIMAND REGION : WEST CENTRAL

DISTRICT PLANT : CAYUGA WPCP : HALDIMAND-NORFOLK/BRANT

WORKS NUMBER: 110000089 OPERATING AUTHORITY : MINISTRY TREATMENT : OXIDATION DITCH WATERCOURSE : GRAND RIVER PHOSPHORUS REMOVAL - CONTINUOUS MAJOR BASIN : GREAT LAKES

> MINOR BASIN : LAKE ERIE 0.90 1000 m3

DESIGN CAPACITY : IJC DESIGNATION : INDIRECT

POPULATION SERVED : 1049

	T	T										
1987	AVG DAY	]	5 DA	Y BOD		1	SUSPEN	DED SOLI	DS	i .	TOTAL PHO	SPHORUS
	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	l 0.431	   72.0	7.0		3.017	   78.0	3.6		1.552	15.6	0.2	0.086
FEB	0.431	256.0	5.3		2.284	273.0	5.0		2.155		0.2	0.086
MAR	0.556	116.0	5.6		3.114	84.0	3.7		2.057		0.2	0.111
APR	0.853	58.0	16.3		13.904	63.0	19.0		16.207	A CONTRACTOR	1.0	0.853
MAY	0.395	145.0	2.1		0.830	114.0	6.8		2.686	7.9	0.4	0.158
JUN	0.356	86.0	3.2		1.139	80.0	6.4		2.278	6.6	0.5	0.178
JUL	0.360	96.0	1.4		0.504	87.0	6.2		2.232	6.1	0.4	0.144
AUG	0.405	68.0	2.9		1.175	87.0	6.2		2.511	5.9	0.6	0.243
SEP	0.420	87.0	3.3		1.386	96.0	5.4		2.268	7.2	0.2	0.084
OCT	0.474	91.0	2.2		1.043	235.0	ND		ND	18.9	0.2	0.095
NOV	0.593	73.0	3.1		1.838	167.0	16.2		9.607	6.2	1.0	0.593
DEC	0.659	91.0	4.5		2.966	80.0	6.9		4.547	4.6	0.2	0.132
	ŀ	<u> </u>										
AVERA	GE: 0.494	103.0	4.7		2.767	1 120.0	7.8		4.373	7.3	0.4	0.230
OBSER	VATIONS: 12	12	12			12	11			12	12	
EXCEE	DANCES	1				l				1		
NO OF	SAMPLES	24	25			22	21			24	24	
		1				1				1		

COMPLIANCE : CRITERIA : NOTE :

> BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS BOD - YES BOD - 25 mg/l TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - YES SS - 25 mg/l \* - EXCEEDS EFFLUENT CRITERIA

TP - YES TP - 1.0 mg/l ND - NO DATA

ANTICIPATED

REMEDIAL MEASURES START DATE END DATE **COMPLIANCE** 

MUNICIPALITY : HALDIMAND

PLANT : HAGERSVILLE WPCP

WORKS NUMBER : 110001024

TREATMENT : EXTENDED AERATION

PHOSPHORUS REMOVAL - CONTINUOUS

REGION

: WEST CENTRAL

DISTRICT

: HALDIMAND-NORFOLK/BRANT

OPERATING AUTHORITY : MINISTRY

WATERCOURSE

: SANDUSK CREEK

MAJOR BASIN

: GREAT LAKES

MINOR BASIN

: LAKE ERIE

DESIGN CAPACITY : 1.00 1000 m3

2362 POPULATION SERVED :

IJC DESIGNATION : INDIRECT

1987	A	VG DAY	1	5 DA	Y BOD		ĺ	SUSPEN	DED SOLI	DS	į į	TOTAL PHO	SPHORUS
	1	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(10	00 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	1	1.440	1 109.0	15.7		22.608	   81.0	15.0		21.600	100	1.1 *	4 (27
FEB	i	1.100	1 145.0			21.340		13.6					1.627
MAR	1	1.390	210.0							14.960		0.9	0.968
	1		■ Name Wildows Code			7.784		14.3		19.877	. 082800	0.4	0.486
APR	ŀ	1.500	114.0			9.000	anae is	9.0		13.500	4.0	0.4	0.540
MAY	l	0.794	264.0	9.1		7.225	111.0	15.4		12.228	6.3	1.0	0.818
JUN	l	0.815	189.0	23.0		18.745	117.0	12.0		9.780	9.4	1.4 *	1.117
JUL	1	0.732	212.0	25.0		18.300	129.0	5.0		3.660	8.0	0.6	0.403
AUG	1	0.834	456.0	24.3		20.266	148.0	13.8		11.509	17.9	0.9	0.759
SEP	1	0.816	217.0	9.9		8.078	102.0	9.9		8.078	6.7	1.1 *	0.898
OCT	1	0.832	134.0	12.3		10.234	103.0	11.5		9.568	6.4	1.1 *	0.890
NOV	1	0.995	223.0	3.9		3.881	167.0	9.2		9.154	9.0	0.3	0.269
DEC	1	1.610	152.0	3.1		4.991	85.0	5.1		8.211	• 1 0-00-00	0.2	0.241
	1		<u> </u>				<u> </u>				1		
AVERA	GE:	1.072	202.0	13.1		12.704	   114.0	11.2		11.844	   8.0	0.8	0.751
OBSER	VATI	ONS:12	1 12	12			I 12	12			1 12	12	0.731
EXCEE	DANC	ES	i				i :-				'E	4	
NO OF	SAM	PLES	23	21			1 23	22			1 27	iii)	
30							. 23	22			23	22	

COMPLIANCE :

CRITERIA :

NOTE :

BOD - YES SS - YES

TP - NO

BOD - 25 mg/l

SS - 25 mg/l TP - 1.0 mg/l

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

\* - EXCEEDS EFFLUENT CRITERIA

ND - NO DATA

ANTICIPATED

REMEDIAL MEASURES

START DATE END DATE

COMPLIANCE

ENGINEERING STUDY PHASE

87/12/31

PLANT : WOODWARD AVE.WPCP (OFFSITE CHEM.ADDN)

WORKS NUMBER : 120001504

MUNICIPALITY : HAMILTON

TREATMENT : CONVENTIONAL ACTIVATED SLUDGE

PHOSPHORUS REMOVAL - CONTINUOUS

: WEST CENTRAL

DISTRICT : HAMILTON

OPERATING AUTHORITY : MUNICIPAL

WATERCOURSE

: REDHILL CREEK

MAJOR BASIN MINOR BASIN : LAKE ONTARIO

: GREAT LAKES

IJC DESIGNATION : DIRECT

DESIGN CAPACITY : 409.14 1000 m3

POPULATION SERVED : 300000

EFF (mg/L) (%REM ) 49.0 ) 19.9 ) 12.0 ) 19.0 ) 17.0 ) 51.0 0 8.0 ) 27.0	14144.879 5753.607 3785.904 6659.424 4536.450 15371.400 2505.752	INF  (mg/L)   741.0   714.0   579.0   685.0   558.0   338.0   365.0	12.0 11.4 9.0 11.0 14.0 11.0 8.0	(%REM)	(kg/d) 3464.052 3296.036 2839.428 3855.456	INF  (mg/L)   9.2   9.4   8.1   8.1   7.3	0.6 0.8 0.7 0.8	173.203 231.301 220.844 280.397 186.795
49.0 19.9 12.0 19.0 17.0 51.0	14144.879 5753.607 3785.904 6659.424 4536.450 15371.400 2505.752	741.0   741.0   714.0   579.0   685.0   558.0   338.0	12.0 11.4 9.0 11.0 14.0	(%REM)	3464.052 3296.036 2839.428 3855.456 3735.900	9.2   9.4   8.1   8.1	0.6 0.8 0.7 0.8 0.7	173.203 231.301 220.844 280.397 186.795
19.9 12.0 19.0 17.0 51.0 8.0	5753.607   3785.904   6659.424   4536.450   15371.400   2505.752	714.0   579.0   685.0   558.0   338.0	11.4 9.0 11.0 14.0 11.0		3296.036 2839.428 3855.456 3735.900	9.4   8.1   8.1   7.3	0.8 0.7 0.8 0.7	231.30° 220.844 280.39° 186.79°
12.0 19.0 17.0 51.0 8.0	3785.904   6659.424   4536.450   15371.400   2505.752	579.0   685.0   558.0   338.0	9.0 11.0 14.0 11.0		2839.428 3855.456 3735.900	8.1   8.1   7.3	0.7 0.8 0.7	220.844 280.397 186.795
19.0 17.0 51.0 8.0	6659.424   4536.450   15371.400   2505.752	685.0 558.0 338.0	11.0 14.0 11.0		3855.456 3735.900	8.1 7.3	0.8 0.7	280.397 186.795
17.0 51.0 8.0	4536.450   15371.400   2505.752	558.0 338.0	14.0 11.0		3735.900	7.3	0.7	186.795
51.0 8.0	15371.400   2505. <b>7</b> 52	338.0	11.0			B so se		
8.0	2505.752	STATE AT LOSS	V64370/70/70/70		3315.400	1 6.4	1.0	1520000 H1100
	umpress series and the series of	365.0	8.0				1.0	301.400
27.0	0570 540 1				2505.752	5.6	0.8	250.57
	8530.569	274.0	8.0		2527.576	5.9	0.7	221.163
33.0	10153.935	297.0	12.0		3692.340	7.0	1.1 *	338.46
19.0	5405.823	464.0	14.0		3983.238	7.4	1.3 *	369.87
32.0	9601.152	546.0	21.0		6300.756	7.0	1.6 *	480.05
43.0	14797.676	537.0 	16.0		5506.112	7.4 	1.3 *	447.37
27.5 *	8437.214	508.0	12.3		3751.837	1 7.4	1.0	291.78
12	j	12	12			1 12	12	
		İ				1	4	
7/2	i	365	354			365	365	
		12	12   12	12   12 12	12   12 12 	12   12 12 	12   12   12   12	12   12 12   12 12   4

COMPLIANCE :

BOD - NO

CRITERIA :

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

BOD - 25 mg/l SS - 25 mg/l SS - YES \* - EXCEEDS EFFLUENT CRITERIA

TP - NO TP - 1.0 mg/l ND - NO DATA

ANTICIPATED

REMEDIAL MEASURES START DATE END DATE COMPLIANCE

CHANGE OF PHOSPHORUS REMOVAL CHEMICAL

88/01/01

88/07/30 89/01/01

MUNICIPALITY : HARRISTON

PLANT : HARRISTON LAGOON

WORKS NUMBER : 110000329

TREATMENT : AERATED LAGOON

SEASONAL DISCHARGE

REGION

: WEST CENTRAL

DISTRICT

: CAMBRIDGE

OPERATING AUTHORITY : MINISTRY

WATERCOURSE

: MAITLAND RIVER

MAJOR BASIN

: GREAT LAKES

MINOR BASIN

: LAKE HURON

DESIGN CAPACITY : POPULATION SERVED: 1963

0.99 1000 m3

IJ

JC	DES	GNAT	ION

: INDIRECT

1987	AVG DAY	1	5 DA	Y BOD		ł	SUSPEN	DED SOLI	DS	1 1	TOTAL PHO	SPHORUS
	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	1.354	1 107.0	ND			204.0	ND			  13.9	ND	
FEB	1.176	138.0	ND			213.0	ND			10.5	ND	
MAR	2.049	344.0	18.3			217.0	6.5			11.8	1.9	
APR	1.716	ND	21.3			ND	15.7			ND	1.1	
MAY	1.128	122.0	ND			415.0	ND			16.0	ND	
JUN	1.140	627.0	ND			806.0	ND			28.4	ND	
JUL	1.302	2100.0	ND			190.0	ND			92.4	ND	
AUG	1.200	354.0	ND			644.0	ND			41.6	ND	
SEP	1.060	191.0	ND			428.0	ND			32.5	ND	
OCT	1.976	569.0	16.3			874.0	12.3			47.8	0.9	
NOV	1.793	216.0	6.8			467.0	8.4			22.8	0.8	
DEC	1.871 	199.0 	5.4			330.0 	4.5			18.5	1.8	
AVERA	GE: 1.480	452.0	13.6		25.710	   435.0	9.5		17.609	30.6	1.3	2.472
	VATIONS:12 DANCES	j 11	5			i 11 I	5			11	5	2.472
NO OF	SAMPLES	46	29			46	24			46	29	

COMPLIANCE :

CRITERIA :

NOTE :

BOD - YES SS - YES

BOD - 30 mg/l

SS - 40 mg/l

TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS. \* - EXCEEDS EFFLUENT CRITERIA

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

TP - NONE TP - NO

ND - NO DATA

ANTICIPATED REMEDIAL MEASURES START DATE END DATE COMPLIANCE ENFORCING BY-LAWS 87/09/01 88/06/30 88/01/31 START UP DIFFICULTIES BEING REMEDIED 86/06/01 86/12/31 CONDUCTING TREATABILITY STUDIES 87/03/01 87/09/30

MUNICIPALITY : KITCHENER REGION : WEST CENTRAL PLANT : KITCHENER WPCP DISTRICT : CAMBRIDGE WORKS NUMBER : 110000374 CPERATING AUTHORITY : MINISTRY

TREATMENT : CONVENTIONAL ACTIVATED SLUDGE WATERCOURSE : GRAND RIVER

PHOSPHORUS REMOVAL-CONTINUOUS MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ERIE

DESIGN CAPACITY : 122.74 1000 m3 IJC DESIGNATION : INDIRECT

POPULATION SERVED: 138271

1											T		
198	37	AVG DAY	1	5 DA	Y BOD		I	SUSPEN	DED SOLI	DS	į ·	TOTAL PHO	SPHORUS
1	- 1	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
1	١	(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
l			I				1						
JAN	1	66.781	289.0	13.4		894.865	240.0	4.0		267.124	7.0	0.5	34.058
FEB	3	64.100	305.0	14.2		910.220	252.0	4.6		294.860	7.6	0.6	37.178
MAR	١ ١	74.378	293.0	21.9		1628.878	220.0	5.8		431.392	6.2	0.7	49.089
APR	R	79.514	230.0	21.0		1669.794	205.0	5.5		437.327	5.8	0.7	56.455
MAY	Y	67.541	212.0	16.8		1134.689	229.0	3.7		249.902	6.3	0.7	48.630
JUN	N	67.088	234.0	15.1		1013.029	225.0	3.5		234.808	5.9	0.8	55.012
JUL	L	72.137	250.0	13.2		952.208	220.0	5.9		425.608	5.9	1.0	72.137
AUG	G	72.545	184.0	6.6		478.797	210.0	5.3		384.488	5.6	0.7	53.683
SEF	Ρ	68.466	302.0	14.6		999.604	235.0	4.5		308.097	6.7	0.9	60.935
001	T	68.716	294.0	11.0		755.876	234.0	5.4		371.066	6.5	1.0	70.777
NO	٧	70.428	297.0	15.3		1077.548	245.0	6.5		457.782	6.4	1.2 *	81.696
DEC	С	75.234	294.0	22.3		1677.718	234.0	8.2		616.919	6.0	0.8	57.930
<u>!</u>		1	1				1				1		
AVE	ERAC	GE: 70.577	l   265.0	15.5		1099.436	   229.0	5.2		373.281	   6.3	0.8	56.465
OBS	SERV	ATIONS:12	1 12	12			1 12	12			1 12	12	
EXC	CEED	ANCES	i				i				i	1	
NO	OF	SAMPLES	J 92	113			259	264			1130	148	
i			i				l				i	THREE	

COMPLIANCE : CRITERIA : NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

BOD - YES BOD - 25 mg/l TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - YES SS - 25 mg/l \* - EXCEEDS EFFLUENT CRITERIA

TP - NO TP - 1.0 mg/L ND - NO DATA

ANTICIPATED

REMEDIAL MEASURES START DATE END DATE COMPLIANCE

CHANGE OF PHOSPHORUS REMOVAL CHEMICAL 88/11/01 88/12/31

MUNICIPALITY : MOUNT FOREST

: MOUNT FOREST WPCP

WORKS NUMBER : 120001381

TREATMENT : CONVENTIONAL ACTIVATED SLUDGE

PHOSPHORUS REMOVAL - CONTINUOUS

REGION

: WEST CENTRAL

DISTRICT : CAMBRIDGE

OPERATING AUTHORITY : MUNICIPAL

WATERCOURSE

MAJOR BASIN

: SAUGEEN RIVER

: GREAT LAKES

MINOR BASIN

: LAKE HURON

IJC DESIGNATION

: INDIRECT

DESIGN CAPACITY :

PLANT

2.45 1000 m3

POPULATION SERVED: 3599

1987	AVG DAY	1	5 DA	Y BOD		1	SUSPEN	DED SOLI	DS	1 '	TOTAL PHO	SPHORUS
	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d
JAN	l ND	363.0	17.0		ND	   434.0	6.0		ND	11.6	1.3 *	ND
FEB	1.528	161.0	28.7		43.854	234.0	5.7		8.710	Towns one	1.3 *	2.00
MAR	2.590	321.0	11.1		28.749	784.0	6.4		16.576	Bernard Service	0.9	2.33
APR	2.489	202.0	9.9		24.641	428.0	5.5		13.689	V	1.2 *	2.86
MAY	1.640	180.0	4.8		7.872	640.0	4.4		7.216		1.5 *	2.52
JUN	1.759	297.0	2.3		4.046	294.0	3.8		6.684	15.1	2.1 *	3.76
JUL	1.611	204.0	7.0		11.277	535.0	4.7		7.572	7.6	1.3 *	2.03
AUG	1.616	228.0	8.3		13.413	207.0	6.2		10.019	18.2	2.1 *	3.45
SEP	1.431	317.0	3.5		5.009	284.0	4.1		5.867	18.3	1.8 *	2.57
OCT	1.760	1473.0	1.6		2.816	275.0	7.5		13.200	11.9	1.7 *	2.97
NOV	2.323	199.0	5.1		11.847	349.0	6.4		14.867	14.5	1.2 *	2.71
DEC	2.399 	251.0 	5.3		12.715	263.0 	4.6		11.035	12.8	1.4 *	3.31
	<u>.</u>	<u>;                                    </u>				<u>.</u>				-		
AVERA		350.0	8.7		15.113		5.4		10.494	12.7	1.5 *	2.77
	VATIONS:11 DANCES	12 	12			12 	12			12 	12 11	
NO OF	SAMPLES	24	23			I 15	17			24	23	

COMPLIANCE :

CRITERIA :

NOTE :

BOD - YES SS - YES

TP - NO

BOD - 25 mg/l

SS - 25 mg/l TP - 1.0 mg/l

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

\* - EXCEEDS EFFLUENT CRITERIA

ND - NO DATA

REMEDIAL MEASURES

START DATE END DATE

ANTICIPATED COMPLIANCE

MUNICIPALITY: NANTICOKE REGION: WEST CENTRAL

PLANT : JARVIS LAGOON DISTRICT : HALDIMAND-NORFOLK/BRANT

WORKS NUMBER: 120001434 OPERATING AUTHORITY: MINISTRY

TREATMENT : CONVENTIONAL LAGOON SEASONAL WATERCOURSE : SANDUSK CREEK
PHOSPHORUS REMOVAL - BATCH MAJOR BASIN : GREAT LAKES

MINOR BASIN : LAKE ERIE

DESIGN CAPACITY : 0.54 1000 m3 IJC DESIGNATION : INDIRECT

POPULATION SERVED : 1190 SUSPENDED SOLIDS **TOTAL PHOSPHORUS** 1987 | AVG DAY 5 DAY BOD INF INF LOAD EFF LOAD INF EFF FLOW FFF LOAD |(mg/L) (mg/L) (%REM) (kg/d) (mg/L) (mg/L)  $|(1000 \text{ m}^3/\text{d})|(\text{mg/L}) \text{ (mg/L)} \text{ (%REM)} \text{ (kg/d)}$ (kg/d) 159.0 1 7.0 1.010 | 93.0 ND ND ND JAN 1.075 | 125.0 ND 1 198.0 ND 9.8 ND FEB 1.100 | 178.0 229.0 110.8 MAR ND ND ND 350.0 1.340 | 151.0 | 5.7 APR 24.0 63.9 0.6 MAY 6.580 | ND ND 1 114.0 ND 1 6.0 ND 0.650 | 169.0 197.0 9.7 JUN ND ND ND 0.490 | 91.0 ND 1 108.0 114.0 ND ND JUL 0.630 | 125.0 ND 126.0 |11.5 ND AUG SEP 0.636 | 92.0 ND | 118.0 ND | 6.4 ND 1 210.0 OCT 0.640 | 157.0 17.7 19.5 1 7.5 0.8 NOV 0.710 | 14.0 ND 46.0 ND | 2.4 ND 1 114.0 DEC | 0.916 | 97.0 1 4.9 ND ND ND | AVERAGE: 1.315 | 118.0 20.9 21.744 | 164.0 41.7 \* 49.053 | 8.0 0.7 0.662 |

COMPLIANCE: CRITERIA: NOTE:

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

BOD - YES BOD - 30 mg/l TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

12

12

2

12

| 12

| 12

2

12

SS - NO SS - 40 mg/l \* - EXCEEDS EFFLUENT CRITERIA

TP - YES TP - 1.0 mg/l ND - NO DATA

OBSERVATIONS:12

EXCEEDANCES
NO OF SAMPLES

11

11

2

12

REMEDIAL MEASURES

START DATE END DATE COMPLIANCE

FUNDING UNDER REVIEW

UNDER DISCUSSION WITH MUNICIPALITY

ENGINEERING STUDY PHASE

FINAL DESIGN PHASE

ANTICIPATED

COMPLIANCE

1989

1989

MUNICIPALITY : NANTICOKE DISTRICT : WEST CENTRAL

PLANT : PORT DOVER WPCP : HALDIMAND-NORFOLK/BRANT

WORKS NUMBER : 110000604 OPERATING AUTHORITY : MINISTRY TREATMENT : PRIMARY WATERCOURSE : LAKE ERIE

MAJOR BASIN PHOSPHORUS REMOVAL - CONTINUOUS : GREAT LAKES MINOR BASIN : LAKE ERIE

DESIGN CAPACITY : 4.09 1000 m3 IJC DESIGNATION : DIRECT

POPULATION SERVED : 3475

- 54,5,1	T					1				т		
1987	AVG DAY	ĺ	5 DA	Y BOD		i	SUSPEN	DED SOLI	DS	ļ	TOTAL PHO	SPHORUS
	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	2.890	248.0	29.8	88	86.122	   963.0	27.8	97	80.342	  18.9	1.0	2.890
FEB	2.270	105.0	31.4	70	71.278	208.0	18.9	91	42.903	4.4	0.7	1.476
MAR	2.430	131.0	36.6	72	88.938	306.0	20.0	93	48.600	7.2	0.7	1.774
APR	3.690	164.0	11.8	93	43.542	248.0	8.8	96	32.472	12.4	0.3	0.959
MAY	2.160	416.0	29.3	93	63.288	863.0	18.9	98	40.824	19.5	0.7	1.490
JUN	1.960	594.0	47.0	92	92.120	323.0	21.8	93	42.728	6.5	1.1 *	2.156
JUL	1.900	209.0	36.7	82	69.730	257.0	19.6	92	37.240	8.6	0.8	1.425
AUG	2.410	189.0	51.5	73	124.115	280.0	100.7	64	242.687	6.0	1.3 *	3.205
SEP	1.830	241.0	27.8	88	50.874	362.0	20.0	94	36.600	8.9	0.6	1.098
OCT	1.870	184.0	26.3	86	49.181	219.0	15.7	93	29.359	6.7	0.4	0.804
NOV	2.220	42.0	13.1	69	29.082	121.0	11.0	91	24.420	2.4	0.5	0.999
DEC	3.610 	47.0 	12.2	74	44.042	102.0 	18.5	82	66.785	3.2	0.5	1.733
AVERA	GE: 2.437	214.0	29.5	82	67.693	   354.0	25.1	90	60.413	1 8.7	0.7	1.667
OBSER	VATIONS: 12	1 12	12			1 12	12	171.7T)		1 12	12	
EXCEE	DANCES	İ				i				i	2	
NO OF	SAMPLES	24	24			24	24			24	22	
		İ				ĺ				1	4555	

COMPLIANCE : CRITERIA : NOTE :

> BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS BOD - YES BOD - 50% TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - YES ss - 70% \* - EXCEEDS EFFLUENT CRITERIA

TP - NO TP - 1.0 mg/l ND - NO DATA

ANTICIPATED REMEDIAL MEASURES START DATE END DATE COMPLIANCE

ENGINEERING STUDY PHASE 90/01/01

MUNICIPALITY : NANTICOKE

: WEST CENTRAL

PLANT : STELCO IND. PARK LAGOON

DISTRICT

: HALDIMAND-NORFOLK/BRANT

WORKS NUMBER: 110003371

OPERATING AUTHORITY : MINISTRY

TREATMENT : CONVENTIONAL LAGOON SEASONAL WATERCOURSE

: CENTER CR : GREAT LAKES

PHOSPHORUS REMOVAL - CONTINUOUS

MAJOR BASIN

MINOR BASIN : LAKE ERIE

DESIGN CAPACITY : 0.04 1000 m3

POPULATION SERVED: 0

IJC DESIGNATION : INDIRECT

1987	AVG DAY	1	5 DA	Y BOD		1	SUSPEN	DED SOLI	DS	1	TOTAL PHO	SPHORUS
	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	0.167	1 16.0	ND			43.0	ND			1 1.2	ND	
FEB	0.175	12.0	ND			34.0	ND			2.0	ND	
MAR	0.225	10.0	1.7			16.0	4.4			1.1	0.4	
APR	0.256	15.0	ND			17.0	ND			1.8	ND	
MAY	0.235	26.0	ND			141.0	ND			6.4	ND	
JUN	0.246	11.0	ND			23.0	ND			2.5	ND	
JUL	0.190	3.0	ND			215.0	ND			5.4	ND	
AUG	0.160	16.0	ND			37.0	ND			1.6	ND	
SEP	0.276	12.0	ND			30.0	ND			1.0	ND	
OCT	0.210	16.0	ND			37.0	ND			1.6	ND	
VOV	0.174	14.0	ND			46.0	ND			2.4	ND	
DEC	0.254	12.0	ND			16.0	ND			3.1	ND	
	<u> </u>	<u> </u>								<u> </u>		
AVERA	GE: 0.214	14.0	1.7		0.383	55.0	4.4		0.990	2.5	0.4	0.08
OBSER\	VATIONS:12	12	1			12	1			12	1	
EXCEE	DANCES	1				1				1		
10 OF	SAMPLES	12	2			12	2			12	2	

COMPLIANCE :

CRITERIA :

NOTE :

BOD - YES

BOD - 30 mg/l

TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS. \* - EXCEEDS EFFLUENT CRITERIA

SS - YES

SS - 40 mg/l

TP - YES

TP - 1.0 mg/l

ND - NO DATA

ANTICIPATED

REMEDIAL MEASURES

START DATE END DATE

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

COMPLIANCE

MUNICIPALITY : NANTICOKE REGION : WEST CENTRAL

PLANT : TOWNSEND LAGOON DISTRICT : HALDIMAND-NORFOLK/BRANT

WORKS NUMBER : 110003424 OPERATING AUTHORITY : MINISTRY

TREATMENT : CONVENTIONAL LAGOON SEASONAL WATERCOURSE : NANTICOKE CREEK

> PHOSPHORUS REMOVAL - BATCH MAJOR BASIN : GREAT LAKES MINOR BASIN : LAKE ERIE

DESIGN CAPACITY : IJC DESIGNATION : DIRECT 0.00 1000 m3

POPULATION SERVED : 0

1987	AV	G DAY	1	5 DA	Y BOD		1	SUSPEN	DED SOLI	DS	1 1	TOTAL PHO	SPHORUS
	F	LOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(100	0 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN		ND	l ND	ND			ND	ND			ND	ND	
FEB	1	ND	ND	ND			ND	ND			ND	ND	
MAR	1	ND	ND	ND			ND	ND			ND	ND	
APR		ND	ND ND	ND			ND	ND			ND	ND	
MAY	1	ND	ND	ND			ND	ND			ND	ND	
JUN	1	ND	ND ND	ND			ND	ND			ND	ND	
JUL	l	ND	ND	ND			ND	ND			ND	ND	
AUG	1	ND	ND	ND			ND	ND			ND	ND	
SEP	l	ND	ND	ND			ND	ND			ND	ND	
OCT	1	ND	ND	ND			ND	ND			ND	ND	
NOV	l	ND	ND	ND			ND	ND			ND	ND	
DEC	1	ND	ND	ND			ND	ND			ND	ND	
AVERAG	GF •	0.000	0.0	0.0		0.000	1 0.0	0.0		0.000	1 0.0		0.000
OBSER\			1 0	0		0.000	1 0.0	0.0		0.000		0.0	0.000
EXCEE			i				"	U			0 	0	
NO OF	SAMP	LES	1 0	0			1 0	0			i o	0	

COMPLIANCE : CRITERIA : NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

BOD - NO DISCHARGE BOD - 30 mg/l TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - NO DISCHARGE SS - 40 mg/l \* - EXCEEDS EFFLUENT CRITERIA

TP - NO DISCHARGE TP - 1.0 mg/l ND - NO DATA

ANTICIPATED

REMEDIAL MEASURES START DATE END DATE COMPLIANCE

MUNICIPALITY: NANTICOKE REGION: WEST CENTRAL

PLANT : WATERFORD LAGOON DISTRICT : HALDIMAND-NORFOLK/BRANT

WORKS NUMBER: 110001195 OPERATING AUTHORITY: MINISTRY

TREATMENT : AERATED CELL PLUS LAGOON WATERCOURSE : NANTICOKE CREEK

CONTINUOUS DISCHARGE MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ERIE

DESIGN CAPACITY : 2.13 1000 m3 IJC DESIGNATION : INDIRECT

POPULATION SERVED : 2364

1987	AVG DAY	1	5 DA	Y BOD		l	SUSPEN	DED SOLI	DS	1 :	TOTAL PHO	SPHORUS
	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	!   1.420	91.0	11.7		16.614	82.0	16.6		23.572	3.8	1.0	1.406
FEB	1.451	203.0	46.6		67.617	229.0	30.7		44.546	5.3	1.2	1.741
MAR	1.556	87.0	56.5		87.914	49.0	18.4		28.630	4.1	0.8	1.291
APR	1.766	56.0	26.2		46.269	67.0	12.2		21.545	4.5	0.7	1.148
MAY	1.511	97.0	35.2		53.187	141.0	35.6		53.792	5.0	0.3	0.438
JUN	1.172	70.0	30.5		35.746	167.0	83.5		97.862	4.8	0.3	0.340
JUL	1.224	107.0	13.3		16.279	125.0	15.8		19.339	3.9	0.3	0.30
AUG	1.209	87.0	7.5		9.068	348.0	14.5		17.530	5.0	0.2	0.290
SEP	1.438	115.0	16.0		23.008	151.0	23.0		33.074	10.1	0.2	0.34
OCT	1.415	109.0	10.6		14.999	75.0	8.2		11.603	5.4	0.1	0.170
NOV	1.408	117.0	7.2		10.138	176.0	6.9		9.715	8.8	0.2	0.296
DEC	1.774 	119.0 	9.1		16.143	97.0 	7.6		13.482	6.3 	0.2	0.40
AVERA	GE: 1.445	105.0	22.5		33.082	142.0	22.8		31.224	5.6	0.5	0.682
	VATIONS: 12 DANCES	12 	12			12	12			12 	12	
NO OF	SAMPLES	25	23			25	23			1 25	63	

COMPLIANCE : CRITERIA : NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

BOD - YES BOD - 30 mg/l TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - YES SS - 40 mg/l \* - EXCEEDS EFFLUENT CRITERIA

TP - YES TP - NONE ND - NO DATA

ANTICIPATED

REMEDIAL MEASURES START DATE END DATE COMPLIANCE

MARGINAL FAILURE-CONTINUE TO MAINTAIN AND MONITOR LEVEL OF FAILED PARAMETER 86/01/01 86/12/31

DISTRICT MUNICIPALITY : NIAGARA FALLS : WEST CENTRAL PLANT : STAMFORD WPCP : WELLAND

WORKS NUMBER : 120001363 OPERATING AUTHORITY : MUNICIPAL

TREATMENT : PRIMARY WATERCOURSE : CHIPPAWA POWER CANAL PHOSPHORUS REMOVAL - CONTINUOUS MAJOR BASIN

: GREAT LAKES MINOR BASIN : LAKE ONTARIO

IJC DESIGNATION : DIRECT DESIGN CAPACITY : 58.18 1000 m3

POPULATION SERVED: 67835

1987	A	VG DAY	1	5 DA	Y BOD		l	SUSPEN	DED SOLI	DS	1 .	TOTAL PHOS	SPHORUS
	1	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(10	00 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d
JAN		48.915	73.0	27.0	63	1320.705	   118.0	18.0	85	880.470	3.3	0.6	28.37
FEB	Ī	43.255	60.0	12.0	80	519.060	134.0	17.0	87	735.335	4.3	0.7	31.57
MAR	1	52.674	38.0	13.9	63	732.169	112.0	14.0	88	737.436	3.3	0.8	42.66
APR	1	66.162	34.0	11.0	68	727.782	86.0	12.0	86	793.944	3.6	0.7	47.63
MAY	1	47.665	43.0	1.3	97	61.965	113.0	1.4	99	66.731	4.8	0.8	38.60
JUN	Ì	55.084	79.0	9.0	89	495.756	96.0	23.0	76	1266.932	4.7	1.3 *	72.7
JUL	1	61.203	68.0	10.0	85	612.030	94.0	15.0	84	918.045	3.8	0.8	50.18
AUG	1	62.798	45.0	14.0	69	879.172	84.0	15.0	82	941.970	ND	ND	ND
SEP	1	67.549	81.0	14.0	83	945.686	101.0	16.0	84	1080.784	ND	ND	ND
OCT	1	54.270	90.0	10.0	89	542.700	122.0	18.3	85	993.141	4.8	0.4	21.1
VON	1	60.370	59.0	11.0	81	664.070	125.0	19.0	85	1147.030	3.6	0.4	24.1
DEC	1	61.119	125.0 	9.0	93	550.071	101.0 	21.0	79	1283.499	3.1 	0.4	24.4
AVERA	GE:	56.755	66.0	11.9	80	670.930	107.0	15.8	85	903.776	3.9	0.7	38.19
OBSER	VATI	ONS:12	12	12			12	12			1 10	10	
XCEE	DANC	ES	1				ĺ				ĺ	1	
NO OF	SAM	PLES	34	37			207	207			33	37	

COMPLIANCE : CRITERIA : NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

BOD - YES BOD - 50% TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - YES ss - 70% \* - EXCEEDS EFFLUENT CRITERIA

TP - NO TP - 1.0 mg/l ND - NO DATA

ANTICIPATED REMEDIAL MEASURES START DATE END DATE COMPLIANCE

MUNICIPALITY : NIAGARA-ON-THE-LAKE

: NIAGARA-ON-THE-LAKE LAGOON

WORKS NUMBER: 120001238

TREATMENT : AERATED CELL PLUS LAGOON

CONTINUOUS DISCHARGE

REGION

: WEST CENTRAL

DISTRICT : WELLAND

WATERCOURSE

OPERATING AUTHORITY : MUNICIPAL

MAJOR BASIN

: LAKE ONTARIO

: GREAT LAKES MINOR BASIN : LAKE ONTARIO

IJC DESIGNATION : DIRECT

DESIGN CAPACITY : POPULATION SERVED: 5210

PLANT

3.84 1000 m3

POPUL	ATTOM SERVED	. 521	U									
1987	I   AVG DAY		5 DA	Y BOD			SUSPEN	DED SOLI	DS	1	TOTAL PHO	SPHORUS
	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	   3.941	79.0	18.0		70.938	97.0	15.0		59.115	3.4	2.2	8.670
FEB	3.605	63.0	9.3		33.527	101.0	8.0		28.840	4.9	3.7	13.230
MAR	4.064	37.0	13.0		52.832	82.0	22.0		89.408	4.2	2.3	9.347
APR	6.283	77.0	26.0		163.358	78.0	36.0		226.188	3.2	2.4	15.079
MAY	3.114	112.0	34.0		105.876	111.0	34.0		105.876	9.8	3.1	9.529
JUN	3.100	108.0	39.0		120.900	178.0	60.0		186.000	6.6	3.4	10.509
JUL	4.151	135.0	34.5		143.209	153.0	50.0		207.550	4.9	3.4	13.947
AUG	31.370	114.0	36.0		1129.320	116.0	42.0		1317.540	4.7	3.1	95.992
SEP	6.609	94.0	40.0		264.360	89.0	32.0		211.488	5.8	4.4	29.080
OCT	3.077	126.0	15.0		46.155	102.0	15.0		46.155	5.4	3.8	11.693
NOV	3.188	69.0	11.0		35.068	140.0	11.0		35.068	4.3	3.8	12.114
DEC	4.414 	34.0 	6.7		29.574	107.0 	11.0		48.554	4.1	4.1	18.097
AVERAG	GE: 6.410	87.0	23.5		182.926	1 113.0	28.0		213.482	5.1	3.3	20.607
	VATIONS: 12 DANCES	12 	12			12	12		ana cua	1 12	12	20.00
NO OF	SAMPLES	35	33			63	63			30	28	
		1				1				1		

COMPLIANCE :

CRITERIA :

NOTE :

BOD - YES

BOD - 30 mg/l

TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - YES

SS - 40 mg/l

\* - EXCEEDS EFFLUENT CRITERIA

TP - YES

TP - NONE

ND - NO DATA

ANTICIPATED

REMEDIAL MEASURES

START DATE END DATE

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

COMPLIANCE

MUNICIPALITY : NORFOLK

REGION

: WEST CENTRAL

PLANT : PORT ROWAN LAGOON

DISTRICT

: HALDIMAND-NORFOLK/BRANT

WORKS NUMBER : 110001113

OPERATING AUTHORITY : MINISTRY

TREATMENT : CONVENTIONAL LAGOON SEASONAL

WATERCOURSE

: DEDRICH CREEK

PHOSPHORUS REMOVAL - BATCH

MAJOR BASIN MINOR BASIN : GREAT LAKES : LAKE ERIE

DESIGN CAPACITY :

0.72 1000 m3

POPULATION SERVED: 720

IJC DESIGNATION : INDIRECT

110000000000000000000000000000000000000	T	1				Υ						~
1987	AVG DAY	i	5 DA	Y BOD		i	SUSPEN	DED SOLI	DS		TOTAL PHO	SPHORUS
	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	Maria care	(mg/L)	(kg/d)
JAN	0.286	ND	ND			ND	ND			ND	ND	
FEB	0.260	ND	ND			ND	ND			ND ND	ND	
MAR	0.282	ND	ND			ND	ND			ND	ND	
APR	0.324	78.0	ND			120.0	ND			5.5	ND	
MAY	0.232	301.0	18.0			332.0	28.2			17.9	0.5	
JUN	0.235	108.0	ND			118.0	ND			5.7	ND	
JUL	0.233	260.0	ND			122.0	ND			10.0	ND	
AUG	0.266	16.0	ND			22.0	ND			1 2.0	ND	
SEP	0.236	55.0	ND			76.0	ND			4.8	ND	
OCT	0.227	117.0	ND			59.0	ND			7.6	ND	
NOV	0.259	80.0	ND			56.0	ND			4.4	ND	
DEC	0.313	131.0	ND			131.0	ND			4.7	ND	
AVERA	GE: 0.263	1 127.0	18.0		/ 174	1 115 0	20.2		4 545	1		
	VATIONS:12	1 9	10.0		4.1/0	115.0	28.2		6.542	7.0	0.5	0.114
	DANCES	'	1			9 	3.			9	1	
NO OF	SAMPLES	9	1			9	1			9	1	
		i				i	A.B.).			i ´		

COMPLIANCE :

CRITERIA :

NOTE :

BOD - YES SS - YES

BOD - 30 mg/l SS - 40 mg/l

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

\* - EXCEEDS EFFLUENT CRITERIA

TP - YES TP - 1.0 mg/l ND - NO DATA

ANTICIPATED

REMEDIAL MEASURES

START DATE END DATE

COMPLIANCE

MARGINAL FAILURE-CONTINUE TO MAINTAIN AND MONITOR LEVEL OF FAILED PARAMETER

MUNICIPALITY : NORTH DUMFRIES REGION DISTRICT : WEST CENTRAL PLANT : AYR PV WPCP : CAMBRIDGE WORKS NUMBER : 110001943 OPERATING AUTHORITY : MINISTRY WATERCOURSE TREATMENT : EXTENDED AERATION : NITH RIVER PHOSPHORUS REMOVAL - CONTINUOUS MAJOR BASIN : GREAT LAKES

MINOR BASIN : LAKE ERIE DESIGN CAPACITY : 1.18 1000 m3 IJC DESIGNATION : INDIRECT

POPULATION SERVED: 1281

FOFUL		. 120										
1987	AVG DAY	i	5 DA	Y BOD		İ	SUSPEN	DED SOLI	DS	<u> </u>	TOTAL PHO	SPHORUS
	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	0.432	1 116.0	7.5		3.240	   87.0	5.1		2.203	5.7	0.5	0.207
FEB	0.435	170.0	8.4		3.654	105.0	6.4		2.784	7.2	0.3	0.144
MAR	0.452	254.0	7.1		3.209	199.0	5.0		2.260	8.6	0.4	0.158
APR	0.428	162.0	2.2		0.942	104.0	3.6		1.541	8.8	0.5	0.223
MAY	0.398	168.0	4.5		1.791	114.0	3.1		1.234	8.3	0.8	0.322
JUN	0.398	192.0	5.2		2.070	839.0	4.3		1.711	11.2	0.9	0.362
JUL	0.404	162.0	2.8		1.131	111.0	2.3		0.929	6.7	0.8	0.319
AUG	0.418	181.0	3.5		1.463	130.0	1.5		0.627	9.1	0.5	0.201
SEP	0.407	ND	ND		ND	ND	4.4		1.791	ND	0.4	0.179
OCT	0.399	84.0	4.5		1.796	53.0	3.0		1.197	4.9	0.2	0.084
NOV	0.403	185.0	5.7		2.297	165.0	7.2		2.902	11.7	0.5	0.189
DEC	0.470 	167.0 	6.9		3.243	162.0 	5.6		2.632	10.3 	0.5	0.235
AVERA	GE: 0.420	167.0	5.3		2.258	188.0	4.3		1.818	8.4	0.5	0.219
	VATIONS:12 DANCES	11 	11			11 	12			j 11 j	12	
NO OF	SAMPLES	1 16	16			16	27			j 16	138	
		1				1						

COMPLIANCE : CRITERIA : NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

BOD - YES BOD - 25 mg/l SS - 25 mg/l TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - YES \* - EXCEEDS EFFLUENT CRITERIA

ND - NO DATA TP - YES TP - 1.0 mg/l

ANTICIPATED

REMEDIAL MEASURES START DATE END DATE COMPLIANCE

MUNICIPALITY : ORANGEVILLE PLANT : ORANGEVILLE WPCP

WORKS NUMBER: 110000542

TREATMENT : CONVENTIONAL ACTIVATED SLUDGE

PHOSPHORUS REMOVAL - CONTINUOUS

EFFLUENT POLISHING

DESIGN CAPACITY : 14.54 1000 m3 POPULATION SERVED : 15300

REGION

: WEST CENTRAL

DISTRICT

: CAMBRIDGE

OPERATING AUTHORITY : MINISTRY WATERCOURSE

: CREDIT RIVER

MAJOR BASIN

: GREAT LAKES

MINOR BASIN : LAKE ONTARIO

IJC DESIGNATION : INDIRECT

PUPUL	ATTON SERVED	: 1530										
1987	AVG DAY	İ	5 DA	Y BOD		1	SUSPEN	DED SOLI	DS	1	TOTAL PHO	SPHORUS
	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	7.640	212.0	3.3		25.212	   213.0	4.5		34.380	112.3	0.2	1.834
FEB	7.210	175.0	6.0		43.260	167.0	4.3		31.003		0.3	1.947
MAR	10.850	130.0	1.7		18.445	141.0	4.7		50.995	6.0	0.2	2.387
APR	12.880	163.0	5.5		70.840	136.0	4.0		51.520	55	0.3	3.478
MAY	7.730	148.0	2.7		20.871	135.0	2.7		20.871	8.5	0.4	3.324
JUN	7.400	195.0	0.7		5.180	165.0	3.2		23.680		0.1	0.88
JUL	7.645	196.0	1.0		7.645	192.0	1.8		13.761	4.2	0.1	0.91
AUG	7.520	133.0	1.3		9.776	104.0	2.2		16.544	5.2	0.1	0.97
SEP	7.763	188.0	1.2		9.316	137.0	3.1		24.065	5.8	0.2	1.78
OCT	7.710	190.0	1.4		10.794	109.0	2.6		20.046	8.4	0.2	1.61
NOV	8.060	198.0	1.8		14.508	113.0	2.0		16.120	4.3	0.2	1.29
DEC	9.740	165.0 	2.7		26.298	110.0 	3.1		30.194	3.7	0.1	1.36
AVERA	GE: 8.512	   174.0	2.4		21.845	   144.0	3.2		27.765	1 6.6	0.2	1.81
OBSER	VATIONS: 12 DANCES	1 12	12			1 12	12		27.705	12	12	1.01
	SAMPLES	72	20			l   75	339			   23	216	

COMPLIANCE :

CRITERIA :

NOTE :

BOD - YES SS - YES

TP - YES

BOD - 25 mg/l SS - 25 mg/l

TP - 1.0 mg/l

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

\* - EXCEEDS EFFLUENT CRITERIA

ND - NO DATA

REMEDIAL MEASURES

START DATE END DATE

ANTICIPATED COMPLIANCE

MUNICIPALITY : PALMERSTON

PLANT : PALMERSTON WPCP

WORKS NUMBER : 110001088

TREATMENT : CONVENTIONAL ACTIVATED SLUDGE

REGION

: WEST CENTRAL

DISTRICT

: CAMBRIDGE

OPERATING AUTHORITY : MINISTRY

WATERCOURSE MAJOR BASIN

: WALLACE DRAIN

: GREAT LAKES

MINOR BASIN

: LAKE HURON

DESIGN CAPACITY :

0.68 1000 m3

POPULATION SERVED :

2050

IJC DESIGNATION : INDIRECT

1987	A	VG DAY	1	5 DA	Y BOD		1	SUSPEN	DED SOLI	DS	1 '	TOTAL PHO	SPHORUS
	1	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(10	00 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	i i	2.770	1 139.0	51.7		143.209	   137.0	41.1		113.847	1 7.1	3.5	9.640
FEB	i	2.730	178.0	104.0		283.920	293.0	48.6		132.678		5.2	14.278
MAR	1	2.800	184.0	36.6		102.480	181.0	20.7		57.960	· 12074025	2.1	5.936
APR	1	2.933	116.0	29.2		85.644	83.0	20.1		58.953		2.3	6.80
MAY	1	2.452	238.0	60.4		148.101	386.0	29.7		72.824	7.4	4.5	11.108
JUN	1	2.200	256.0	52.6		115.720	200.0	62.3		137.060	21.9	4.3	9.37
JUL	1	2.065	166.0	138.0		284.970	120.0	86.9		179.448	6.9	4.5	9.29
AUG	ı	2.000	393.0	50.8		101.600	286.0	29.5		59.000	16.2	3.8	7.56
SEP	1	2.875	ND	ND		ND	ND	ND		ND	ND	ND	ND
OCT	ı	2.600	433.0	74.0		192.400	142.0	27.8		72.280	13.0	4.7	12.11
NOV	l	2.032	188.0	55.4		112.573	146.0	38.1		77.419	10.1	3.4	6.848
DEC	l	1.890	271.0	42.0		79.380	517.0	38.0		71.820	22.3	ND	ND
	_		<u> </u>				<u> </u>				1		
AVERA	GE:	2.446	233.0	63.2 *		150.000	   226.0	40.3 *		93.935	111.4	3.8	9.296
		NS:12	11	11			11	11		,,,,,,	11	10	7.27
NO OF			l I 11	10			   11	10			   11	10	

COMPLIANCE :

CRITERIA :

NOTE :

BOD - NO

BOD - 25 mg/l

TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS. \* - EXCEEDS EFFLUENT CRITERIA

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

SS - NO TP - YES SS - 25 mg/l TP - NONE

ND - NO DATA

ANTICIPATED REMEDIAL MEASURES START DATE END DATE COMPLIANCE FINAL DESIGN PHASE 86/12/31 UNDER CONSTRUCTION 87/05/01 88/11/30 CONSTRUCTION COMPLETED 88/12/30 FACILITY OPERATIONAL 88/09/30 89/01/31

MUNICIPALITY : PARIS

PLANT : PARIS WPCP

WORKS NUMBER: 110001097

TREATMENT : EXTENDED AERATION

PHOSPHORUS REMOVAL - CONTINUOUS

7.04 1000 m3

REGION

: WEST CENTRAL

DISTRICT

: HALDIMAND-NORFOLK/BRANT

OPERATING AUTHORITY : MINISTRY

WATERCOURSE

: GRAND RIVER

MAJOR BASIN

: GREAT LAKES

MINOR BASIN

: LAKE ERIE

DESIGN CAPACITY :

IJC DESIGNATION : INDIRECT

1987	A	/G DAY	i	5 DA	Y BOD		i	SUSPEN	DED SOLI	DS	į į	TOTAL PHO	SPHORUS
	1 1	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(100	00 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d
JAN	1	2.630	427.0	5.5		14.465	   213.0	4.4		11.572	7.7	0.4	0.999
FEB	1	2.490	348.0	7.6		18.924	217.0	6.1		15.189	9.9	0.4	0.94
MAR	1	2.700	538.0	10.4		28.080	149.0	8.4		22.680	6.9	0.7	1.89
APR	1	3.040	257.0	4.6		13.984	125.0	9.9		30.096	7.8	0.5	1.39
MAY	1	2.460	313.0	4.1		10.086	128.0	3.7		9.102	7.7	0.7	1.82
JUN	1	2.380	528.0	3.0		7.140	257.0	1.9		4.522	10.2	0.4	0.92
JUL	1	2.330	336.0	2.2		5.126	228.0	1.4		3.262	9.0	0.4	1.00
AUG	1	2.440	395.0	4.2		10.248	162.0	3.8		9.272	7.3	0.6	1.51
SEP	1	2.470	314.0	3.4		8.398	157.0	7.3		18.031	7.9	0.7	1.80
OCT	1	2.410	302.0	4.8		11.568	203.0	7.4		17.834	10.6	0.5	1.20
NOV	l	2.590	232.0	5.3		13.727	146.0	4.5		11.655	8.0	0.6	1.65
DEC	1	2.560	362.0 	5.3		13.568	230.0 	5.7		14.592	8.6 	0.4	1.02
AVERA	GE:	2.542	363.0	5.0	-	12.943	   185.0	5.4		13.984	8.5	0.5	1.34
OBSER Excee		ONS:12 ES	12 	12			12 	12			12 	12	
NO OF	SAMI	PLES	20	20			20	63			1 20	153	

COMPLIANCE :

CRITERIA :

NOTE :

BOD - YES SS - YES

TP - YES

BOD - 25 mg/l

SS - 25 mg/l TP - 1.0 mg/l TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

\* - EXCEEDS EFFLUENT CRITERIA

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

ND - NO DATA

REMEDIAL MEASURES

START DATE END DATE

ANTICIPATED COMPLIANCE

MUNICIPALITY : PORT COLBORNE REGION DISTRICT PLANT : SEAWAY WPCP WORKS NUMBER: 120001906

OPERATING AUTHORITY : MUNICIPAL TREATMENT : CONVENTIONAL ACTIVATED SLUDGE WATERCOURSE : WELLAND CANAL

> PHOSPHORUS REMOVAL - CONTINUOUS MAJOR BASIN : GREAT LAKES MINOR BASIN : LAKE ONTARIO

: WEST CENTRAL

: WELLAND

IJC DESIGNATION : DIRECT DESIGN CAPACITY : 15.00 1000 m3

POPULATION SERVED : 15825

1											1		
1987	·	AVG DAY	1	5 DA	Y BOD		l.	SUSPEN	DED SOLI	DS	i	TOTAL PH	OSPHORUS
l	1	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
!	[0	1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	1	10.792	   85.0	13.5		145.692	   159.0	21.2		228.790	16.4	0.4	4.641
FEB	i	9.660	66.0	5.5		53.130	■ Service To E	7.5		72.450		0.4	3.961
MAR	i	11.647	94.0	7.1		82.694	169.0	7.3		85.023		0.6	7.105
APR	İ	14.336	92.0	11.4		163.430	120.0	5.8		83.149	8	0.5	7.741
MAY	Ì	9.528	177.0	34.1		324.905	288.0	10.8		102.902	111.8	0.5	5.145
JUN	Ì	10.028	65.0	3.5		35.098	113.0	2.9		29.081		0.4	4.111
JUL	1	12.051	37.0	2.4		28.922	62.0	2.2		26.512	6.0	0.4	4.218
AUG	1	10.988	101.0	7.5		82.410	181.0	3.1		34.063	1	0.5	4.945
SEP	1	14.056	87.0	4.3		60.441	123.0	2.8		39.357	7.2	0.6	8.574
OCT	1	10.588	112.0	6.1		64.587	133.0	3.4		35.999	8.7	0.5	5.612
NOV	١	10.919	86.0	10.0		109.190	170.0	5.9		64.422	7.7	0.6	6.005
DEC	1	12.211	49.0	7.9		96.467	86.0	15.4		188.049	5.4	0.4	4.518
<u> </u>	1_		<u> </u>				<u> </u>				<u> </u>		
AVER	AGE	: 11.400	88.0	9.4		103.914	144.0	7.4		82.483	7.4	0.5	5.548
OBSE	RVA	IONS:12	12	12			12	12			12	12	
EXCE	EDA	ICES	1				1				1		
NO O	F S/	MPLES	59	55			224	221			139	178	
			1				l				1		

COMPLIANCE : CRITERIA : NOTE :

> BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS BOD - 25 mg/l BOD - YES

TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - YES SS - 25 mg/l \* - EXCEEDS EFFLUENT CRITERIA

TP - YES TP - 1.0 mg/l ND - NO DATA

ANTICIPATED REMEDIAL MEASURES

START DATE END DATE COMPLIANCE

MUNICIPALITY : PORT COLBORNE

DISTRICT : WEST CENTRAL

PLANT : WEST PLANT (EXCESS Q FROM SEAWAY ONLY)

TREATMENT : CONVENTIONAL ACTIVATED SLUDGE

: WELLAND

WORKS NUMBER : 120001336

OPERATING AUTHORITY : MUNICIPAL WATERCOURSE

PHOSPHORUS REMOVAL - CONTINUOUS

MAJOR BASIN : GREAT LAKES MINOR BASIN : LAKE ONTARIO

: WELLAND CANAL

DESIGN CAPACITY :

0.00 1000 m3

IJC DESIGNATION : DIRECT

POPULATION SERVED: 0

1987	AVG D	AY	I	5 DA	Y BOD		İ	SUSPEN	DED SOLI	DS	i i	TOTAL PHO	SPHORUS
	FLOW	ı	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m	3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	!   N	ID	ND	ND		ND	ND	ND		ND	ND	ND	ND
FEB	N	ID	ND	ND		ND	ND	ND		ND	ND	ND	ND
MAR	N	ID	ND	ND		ND	ND	ND		ND	ND	ND	ND
APR	) N	ID	ND	ND		ND	ND	ND		ND	ND	ND	ND
MAY	N	ID	ND	ND		ND	ND	ND		ND	ND	ND	ND
JUN	N	ID	ND	ND		ND	ND	ND		ND	ND	ND	ND
JUL	N	ID	ND	ND		ND	ND	ND		ND	ND	ND	ND
AUG	N	ID	ND	ND		ND	ND	ND		ND	ND	ND	ND
SEP	N	ID	ND ND	ND		ND	ND	ND		ND	ND	ND	ND
OCT	N	ID	ND ND	ND		ND	ND ND	ND		ND	ND	ND	ND
NOV	N	ID	ND	ND		ND	ND	ND		ND	ND	ND	ND
DEC	N	ID	ND	ND		ND	ND	ND		ND	ND	ND	ND
	<u> </u>				-		1			-	!		
AVERA	GE: 0.	000	0.0	0.0		0.000	0.0	0.0		0.000	1 0.0	0.0	0.00
OBSER	VATIONS:	0	0	0			0	0			j o	0	
EXCEE	DANCES		1				I				i		
NO OF	SAMPLES	6	0	0			0	0			i o	0	
			Ĭ				Î				i		

COMPLIANCE : CRITERIA :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

BOD - NO DISCHARGE BOD - 25 mg/l TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - NO DISCHARGE SS - 25 mg/l

\* - EXCEEDS EFFLUENT CRITERIA

TP - NO DISCHARGE TP - 1.0 mg/l

ND - NO DATA

NOTE :

ANTICIPATED

REMEDIAL MEASURES

START DATE END DATE

COMPLIANCE

MUNICIPALITY : SHELBURNE : WEST CENTRAL REGION PLANT : SHELBURNE WPCP DISTRICT : CAMBRIDGE WORKS NUMBER: 110000659 OPERATING AUTHORITY : MINISTRY TREATMENT : OXIDATION DITCH WATERCOURSE : BOYNE RIVER PHOSPHORUS REMOVAL - CONTINUOUS

MAJOR BASIN MINOR BASIN : GREAT LAKES : LAKE HURON EFFLUENT POLISHING DESIGN CAPACITY : 2.04 1000 m3 IJC DESIGNATION : INDIRECT

POPULATION SERVED: 4000

	I					T				1		
1987	AVG DAY	l	5 DA	Y BOD		l	SUSPEN	DED SOLI	DS	1 .	TOTAL PHO	SPHORUS
	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	1.320	1 164.0	5.3		6.996	   223.0	10.7		14.124	   9.6	0.6	0.726
FEB	1.240	154.0	1.6		1.984	214.0	11.2		13.888	7.6	0.7	0.868
MAR	1.910	124.0	14.3		27.313	154.0	20.3		38.773	6.9	0.6	1.165
APR	2.090	145.0	4.6		9.614	129.0	6.9		14.421	6.3	0.6	1.233
MAY	1.740	196.0	4.6		8.004	154.0	5.2		9.048	8.6	0.4	0.748
JUN	1.650	268.0	3.2		5.280	196.0	8.0		13.200	6.6	0.9	1.452
JUL	1.609	251.0	2.6		4.183	161.0	3.1		4.988	6.4	0.6	0.949
AUG	1.806	150.0	7.7		13.906	153.0	3.9		7.043	6.0	0.6	1.066
SEP	1.150	218.0	8.0		9.200	185.0	4.3		4.945	8.3	0.6	0.632
OCT	1.270	288.0	10.8		13.716	218.0	4.6		5.842	8.8	0.4	0.546
NOV	1.380	272.0	11.1		15.318	276.0	5.4		7.452	10.2	0.3	0.38
DEC	1.890	199.0	3.6		6.804	203.0	5.9		11.151	5.0	0.2	0.283
						<u> </u>				<del></del>		
AVERA	GE: 1.588	202.0	6.5		10.193	189.0	7.5		12.073	7.5	0.5	0.83
	VATIONS: 12	12	12			12	12			12	12	
	DANCES SAMPLES	   71	18			   74	66			   24	79	
		1				i				i		

COMPLIANCE : CRITERIA : NOTE :

> BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS BOD - 25 mg/l SS - 25 mg/l BOD - YES TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - YES \* - EXCEEDS EFFLUENT CRITERIA

TP - YES TP - 1.0 mg/l ND - NO DATA

ANTICIPATED

REMEDIAL MEASURES START DATE END DATE COMPLIANCE

MUNICIPALITY : SIMCOE

INF

PLANT : SIMCOE WPCP

WORKS NUMBER: 110000677

TREATMENT : CONVENTIONAL ACTIVATED SLUDGE

PHOSPHORUS REMOVAL - CONTINUOUS

EFFLUENT POLISHING

DESIGN CAPACITY :

1987 | AVG DAY

15.45 1000 m3

POPULATION SERVED: 11961

FLOW

REGION : WEST CENTRAL

DISTRICT : HALDIMAND-NORFOLK/BRANT

OPERATING AUTHORITY : MINISTRY

WATERCOURSE : LYNN RIVER

MAJOR BASIN : GREAT LAKES

MINOR BASIN : LAKE ERIE

IJC DESIGNATION : INDIRECT

5 DAY BOD SUSPENDED SOLIDS TOTAL PHOSPHORUS **EFF** LOAD INF EFF LOAD INF EFF LOAD

1		(10	00 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
1	JAN	1	9.130	261.0	3.9		35.607	   185.0	2.1		19.173	   5.8	0.9	7.852
1	FEB	1	8.600	418.0	8.2		70.520	191.0	2.4		20.640	8.9	0.6	5.332
-1	MAR	1	8.419	208.0	2.9		24.415	223.0	4.0		33.676	6.2	0.7	6.062
1	APR	1	9.805	122.0	1.5		14.707	191.0	1.6		15.688	5.4	0.8	7.550
1	MAY	1	8.090	174.0	3.4		27.506	165.0	1.2		9.708	7.3	0.7	5.501
1	JUN	1	8.026	191.0	4.6		36.920	124.0	1.6		12.842	6.5	0.6	4.575
1	JUL	1	7.639	301.0	5.4		41.251	152.0	2.1		16.042	5.9	0.8	6.111
1	AUG	1	7.908	183.0	9.4		74.335	207.0	5.9		46.657	7.1	1.0	7.513
1	SEP	1	8.061	219.0	6.6		53.203	200.0	4.1		33.050	6.8	0.3	2.338
1	OCT	1	12.030	307.0	4.1		49.323	152.0	5.1		61.353	7.8	0.4	4.812
1	NOV	1	7.703	199.0	3.3		25.420	157.0	1.2		9.244	7.5	0.4	3.235
1	DEC	1	8.134	221.0 	4.4		35.790	167.0 	2.0		16.268	5.4	0.4	3.010
1	AVER	AGE:	8.629	234.0	4.8		40.750	   176.0	2.8		24.528	6.7	0.6	5.324
1	OBSE!		ONS:12 ES	12 	12			12 	12			12 	12	
ļ	NO O	FSAM	PLES	56	57			56	56			57	334	i

COMPLIANCE :

CRITERIA :

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS BOD - YES BOD - 25 mg/l TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - YES SS - 25 mg/l \* - EXCEEDS EFFLUENT CRITERIA

TP - YES TP - 1.0 mg/l ND - NO DATA

ANTICIPATED

START DATE END DATE

COMPLIANCE

NONE

REMEDIAL MEASURES

MUNICIPALITY : SOUTH DUMFRIES

PLANT : ST GEORGE PV WPCP

WORKS NUMBER : 110003415

TREATMENT : EXTENDED AERATION

PHOSPHORUS REMOVAL - CONTINUOUS

EFFLUENT POLISHING

DESIGN CAPACITY : 1.06 1000 m3

POPULATION SERVED : 500

: WEST CENTRAL

: HALDIMAND-NORFOLK/BRANT

DISTRICT OPERATING AUTHORITY : MINISTRY

WATERCOURSE

: FAIRCHILD CREEK (W. BR)

MAJOR BASIN

: GREAT LAKES

MINOR BASIN : LAKE ERIE

IJC DESIGNATION : INDIRECT

	1											
1987	AVG DAY	i	5 DA	Y BOD		l 	SUSPEN	IDED SOLI	DS		TOTAL PHO	SPHORUS
	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	0.331	183.0	1.0		0.331	   139.0	0.4		0.132	   4.3	0.5	0.149
FEB	0.367	187.0	1.9		0.697	118.0	2.5		0.917	- T	0.3	0.114
MAR	0.400	180.0	2.2		0.880	166.0	0.8		0.320	15	0.5	0.188
APR	0.415	128.0	0.9		0.373	71.0	0.8		0.332		0.4	0.170
MAY	0.354	102.0	1.6		0.566	86.0	1.0		0.354	6.6	0.5	0.166
JUN	0.421	76.0	3.5		1.474	73.0	2.2		0.926	3.3	0.5	0.202
JUL	0.423	144.0	0.9		0.381	119.0	0.6		0.254	5.4	0.4	0.178
AUG	0.403	101.0	2.9		1.169	69.0	0.5		0.202	5.4	0.5	0.185
SEP	0.404	105.0	2.8		1.131	114.0	1.5		0.606		0.5	0.202
OCT	0.382	102.0	1.5		0.573	269.0	3.0		1.146	8.5	0.4	0.168
NOV	0.403	153.0	5.0		2.015	165.0	2.7		1.088	9.6	0.4	0.177
DEC	0.431 	105.0 	5.2		2.241	112.0	1.4		0.603	4.0	0.4	0.185
		<u>.</u>								<u> </u>		
AVERAC		130.0	2.5		0.986	125.0	1.5		0.573	6.1	0.4	0.174
OBSER\ EXCEED	ATIONS:12	12 	12			12	12			12	12	
NO OF	SAMPLES	18	18			18	27			1 18	116	
										I		

COMPLIANCE :

CRITERIA :

NOTE :

BOD - YES SS - YES

TP - YES

REMEDIAL MEASURES

BOD - 25 mg/l

SS - 25 mg/l

TP - 1.0 mg/l

TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

\* - EXCEEDS EFFLUENT CRITERIA

ND - NO DATA

ANTICIPATED

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

START DATE END DATE

**COMPLIANCE** 

MUNICIPALITY : ST CATHARINES

PLANT : PORT DALHOUSIE WPCP

WORKS NUMBER: 120001327

TREATMENT : CONVENTIONAL ACTIVATED SLUDGE

PHOSPHORUS REMOVAL - CONTINUOUS

REGION

: WEST CENTRAL

DISTRICT

: WELLAND

OPERATING AUTHORITY : MUNICIPAL

WATERCOURSE

: LAKE ONTARIO

MAJOR BASIN

: GREAT LAKES

MINOR BASIN

: LAKE ONTARIO

IJC DESIGNATION : DIRECT

DESIGN CAPACITY : 61.37 1000 m3

POPULATION SERVED: 60430

1987	A	VG DAY	I	5 DA	Y BOD		1	SUSPEN	DED SOLI	DS	1 1	OTAL PHO	SPHORUS
	1	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(10	00 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN		44.454	1 158.0	21.0		933.534	1 118.0	12.0		533.448	4.0	0.5	22.672
FEB		39.772	110.0	15.0		596.580	137.0	9.4		373.857	4.2	0.4	16.704
MAR	1	42.727	98.0	21.0		897.267	146.0	8.5		363.179	3.8	0.4	15.382
APR	1	49.727	59.0	13.5		671.314	120.0	10.1		502.243	16.8	0.3	12.929
MAY	1	37.136	142.0	24.0		891.264	234.0	8.0		297.088	5.9	0.2	8.170
JUN	1	38.004	123.0	6.9		262.228	108.0	8.3		315.433	4.3	0.5	19.002
JUL	1	36.636	194.0	9.1		333.388	113.0	7.6		278.434	3.2	0.2	7.694
AUG	1	41.868	75.0	11.7		489.856	98.0	13.0		544.284	3.5	0.5	20.097
SEP	1	45.987	180.0	12.6		579.436	130.0	12.7		584.035	5.2	0.7	33.571
OCT	1	42.186	138.0	10.2		430.297	150.0	10.0		421.860	4.0	0.5	22.359
NOV	I	43.409	118.0	8.3		360.295	137.0	10.9		473.158	4.9	0.5	21.270
DEC	 	49.187	75.0 	10.1		496.789	114.0 	10.4		511.545	3.1	0.5	26.069
AVERA	GE:	42.591	122.0	13.6		578.521	134.0	10.1		433.214	1 5.2	0.4	18.827
OBSER'		ONS:12 ES	12 	12			12 	12			12	12	
NO OF	SAM	PLES	25	25			342	342			1 59	55	

COMPLIANCE :

CRITERIA :

NOTE :

BOD - YES SS - YES

BOD - 25 mg/t SS - 25 mg/l TP - 1.0 mg/l

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

\* - EXCEEDS EFFLUENT CRITERIA

ND - NO DATA

ANTICIPATED

REMEDIAL MEASURES

TP - YES

START DATE END DATE

COMPLIANCE

ENGINEERING STUDY PHASE

87/08/31 89/12/31

REGION : WEST CENTRAL DISTRICT : MELIAND MUNICIPALITY : ST CATHARINES PLANT : PORT WELLER WPCP

WORKS NUMBER : 120001318 OPERATING AUTHORITY : MUNICIPAL

TREATMENT : CONVENTIONAL ACTIVATED SLUDGE WATERCOURSE : PORT WELLER HARBOUR MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ONTARIO PHOSPHORUS REMOVAL - CONTINUOUS

IJC DESIGNATION : DIRECT DESIGN CAPACITY : 37.50 1000 m3

POPULATION SERVED: 75690

1987	A\	G DAY	1		5 DA	Y BOD		1	SUSPEN	DED SOLI	DS	1	OTAL PHO	SPHORUS
		FLOW	INF		EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(100	00 m3/d)	(mg/l	.) (	mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	I	43.409	   104.	0	12.9		559.976	   180.0	10.9		473.158	15.3	0.7	32.123
FEB		38.636	1 194		11.0		424.996		10.2		394.087		0.8	32.454
MAR	•	41.681	63.	0	20.0		833.620	162.0	9.5		395.969		0.9	36.262
APR	İ	52.727	43.	0	22.0		1159.994	115.0	12.4		653.815	3.7	0.7	35.854
MAY	1	31.000	166	.0	16.0		496.000	284.0	12.1		375.100	5.3	1.0	30.380
JUN	1	31.867	109	.0	23.0		732.941	186.0	10.8		344.164	7.9	0.8	25.812
JUL	ı	37.590	1 109	.0	20.0		751.800	201.0	8.6		323.274	5.0	0.8	30.07
AUG	1	37.909	73	.0	12.9		489.026	281.0	20.1		761.971	4.0	0.5	17.817
SEP	1	38.980	88	0	25.0		974.500	361.0	8.9		346.922	11.5	0.7	26.50
OCT	1	34.458	128	0	18.0		620.244	355.0	17.9		616.798	10.3	1.0	34.458
VON	l	41.500	100	.0	17.0		705.500	247.0	14.0		581.000	6.5	1.0	41.50
DEC	l	57.461	122	0	25.0		1436.525	179.0	12.1		695.278	5.7	1.0	57.46
	1		<u> </u>									<u> </u>		
AVERA	GE:	40.602	1 108	.0	18.6		765.427	   228.0	12.3		496.795	6.2	0.8	33.392
OBSER	VATIO	ONS:12	1 12	?	12			12	12			12	12	
EXCEE	DANCE	S	1					l				1		
10 OF	SAME	PLES	35	i	30			373	369			54	64	

COMPLIANCE : CRITERIA : NOTE : BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

BOD - 25 mg/l SS - 25 mg/l 1.0 mg/l BOD - YES TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS. SS - YES \* - EXCEEDS EFFLUENT CRITERIA

TP - YES ND - NO DATA

ANTICIPATED REMEDIAL MEASURES START DATE END DATE COMPLIANCE FINAL DESIGN PHASE 87/04/30 88/12/31

MUNICIPALITY : WATERLOO

PLANT

: WATERLOO WPCP

WORKS NUMBER : 110000793

TREATMENT : CONVENTIONAL ACTIVATED SLUDGE

PHOSPHORUS REMOVAL - CONTINUOUS

45.46 1000 m3

REGION

: WEST CENTRAL

DISTRICT

: CAMBRIDGE

OPERATING AUTHORITY : MINISTRY

WATERCOURSE

: GRAND RIVER

MAJOR BASIN

: GREAT LAKES

MINOR BASIN

: LAKE ERIE

DESIGN CAPACITY : POPULATION SERVED : 66627

IJC DESIGNATION

INDIRECT

JL	DESIGNATION	: 1

			10000			(						
1987	AVG DAY	i	5 DA	Y BOD		İ	SUSPEN	IDED SOLI	DS	i	TOTAL PHO	SPHORUS
	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/d	)  (mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	40.060	   210.0	7.8		312.468	   430.0	10.0		400.600	15.6	0.7	28.042
FEB	42.760	280.0	7.0			590.0	11.0		470.360	· Designation	0.6	25.656
MAR	54.650	160.0	7.0		382.550		11.0		601.150	■ CAMPINA	0.6	32.790
APR	57.140	230.0	6.0		342.840	410.0	8.0		457.120	4.9	0.5	28.570
MAY	44.450	190.0	8.0		355.600	250.0	14.0		622.300	4.8	0.8	35.560
JUN	43.010	200.0	7.0		301.070	260.0	11.0		473.110	5.7	0.8	34.408
JUL	44.180	180.0	8.0		353.440	320.0	9.0		397.620	5.0	0.6	26.508
AUG	43.720	107.0	2.0		87.440	260.0	10.0		437.200	5.2	0.8	34.976
SEP	43.130	150.0	8.0		345.040	240.0	18.0		776.340	4.7	1.3 *	56.069
OCT	45.990	140.0	10.0		459.900	300.0	23.0		1057.770	4.5	1.2 *	55.188
NOV	47.070	126.0	7.0		329.490	350.0	17.0		800.190	4.2	0.9	42.363
DEC	50.360	190.0	12.0		604.320	320.0	29.0		1460.440	4.1	1.0	50.360
	<u> </u>	<u> </u>					740					
AVERA	GE: 46.377	1 180.0	7.5		347.790	   334.0	14.3		662.850	l   5.0	0.8	37.541
OBSER	VATIONS:12	12	12			12	12			1 12	12	2
EXCEE	DANCES	I				Ì				i	2	
NO OF	SAMPLES	82	79			245	239			84	186	
		1				i				i e	0.2.20	

COMPLIANCE :

CRITERIA :

NOTE :

BOD - YES SS - YES

TP - NO

BOD - 25 mg/l

SS - 25 mg/l

TP - 1.0 mg/l

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

\* - EXCEEDS EFFLUENT CRITERIA

ND - NO DATA

REMEDIAL MEASURES

START DATE END DATE

ANTICIPATED COMPLIANCE

UNDER CONSTRUCTION

87/09/01 88/12/31

1989

MUNICIPALITY: WELLAND REGION

PLANT: WELLAND WPCP

DISTRICT

WORKS NUMBER: 120001309

OPERATING AUT

TREATMENT : CONVENTIONAL ACTIVATED SLUDGE

PHOSPHORUS REMOVAL - CONTINUOUS

DISTRICT : WELLAND

OPERATING AUTHORITY : MUNICIPAL

WATERCOURSE : WELLAND RIVER

: WEST CENTRAL

MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ONTARIO

IJC DESIGNATION : INDIRECT

POPULATION SERVED: 47205

DESIGN CAPACITY : 45.46 1000 m3

	T	-	T		Ser USE						1000		
1987	FLOW	i	5 DA	Y BOD		i	SUSPEN	DED SOLI	DS	i i	TOTAL PHO	SPHORUS	
l	1	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
1	(10	00 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
	Ţ		1	2 2			1				I		
JAN	l .	33.888	60.0	8.3		281.270	ESPANSIN VI	12.3		416.822	3	1.3 *	43.377
FEB	l	28.569	65.0	5.9		168.557	205.0	9.6		274.262	8.1	0.4	10.571
MAR	1	39.924	57.0	11.2		447.149	179.0	13.9		554.944	4.0	0.5	21.160
APR	1	48.293	71.0	11.6		560.199	172.0	13.8		666.443	3.7	0.5	22.698
MAY	1	25.076	95.0	7.1		178.040	206.0	9.5		238.222	6.7	0.3	6.269
JUN	1	32.567	75.0	2.8		91.188	158.0	8.1		263.793	4.7	0.3	9.444
JUL	ł	31.495	73.0	4.4		138.578	131.0	5.7		179.522	3.6	0.3	10.393
AUG	1	31.797	74.0	3.7		117.649	125.0	5.1		162.165	5.1	0.5	16.216
SEP	1	38.137	84.0	7.9		301.282	136.0	5.5		209.754	3.6	0.3	12.585
OCT	1	32.404	72.0	10.3		333.761	141.0	9.6		311.078	5.6	0.5	17.498
NOV	1	33.134	94.0	16.3		540.084	178.0	15.0		497.010	4.0	0.4	14.579
DEC	1	44.867	59.0	12.1		542.891	156.0	16.2		726.845	3.3	0.5	20.639
<u> </u>	<u> </u>		<u> </u>								<u> </u>		
I   AVERA	GE:	35.013	73.0	8.5		308.387	   159.0	10.4		375.072	1 4.7	0.5	17,119
OBSER	VATI	ONS:12	12	12			1 12	12			12	12	
EXCEE	DANC	ES	1				1				i	1	
NO OF	SAM	PLES	106	106			439	425			157	164	
l			l				I				ĺ		

COMPLIANCE : CRITERIA : NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

BOD - YES BOD - 25 mg/l TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - YES SS - 25 mg/l \* - EXCEEDS EFFLUENT CRITERIA

TP - NO TP - 1.0 mg/l ND - NO DATA

ANTICIPATED

REMEDIAL MEASURES START DATE END DATE COMPLIANCE

FINAL DESIGN PHASE 87/02/28 89/12/31

MUNICIPALITY : WELLESLEY

PLANT : WELLESLEY WPCP WORKS NUMBER: 110001578

TREATMENT : EXTENDED AERATION

PHOSPHORUS REMOVAL - CONTINUOUS

: WEST CENTRAL

DISTRICT

: CAMBRIDGE

OPERATING AUTHORITY : MINISTRY

WATERCOURSE MAJOR BASIN : NITH RIVER

MINOR BASIN

: GREAT LAKES

: LAKE ERIE

DESIGN CAPACITY : 0.50 1000 m3

POPULATION SERVED: 950

IJC DESIGNATION : INDIRECT

1987	AVG	DAY	1	5 DA	Y BOD		1	SUSPEN	DED SOLI	DS	Ι :	TOTAL PHO	SPHORUS
	FL	.OW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000	m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN		0.568	1 130.0	9.6		5.453	1 163.0	3.7		2.102	4.5	0.5	0.284
FEB	1	0.491	155.0	2.5		1.228	250.0	4.3		2.111	5.9	0.5	0.255
MAR	1	0.917	74.0	5.4		4.952	85.0	2.7		2.476	3.8	0.3	0.275
APR	1	0.803	70.0	2.5		2.008	107.0	4.4		3.533	3.0	0.5	0.361
MAY	1	0.484	200.0	1.4		0.678	168.0	4.4		2.130	7.3	0.5	0.218
JUN	1	0.459	122.0	1.0		0.459	171.0	4.9		2.249	5.8	0.5	0.230
JUL		0.528	202.0	3.9		2.059	179.0	4.8		2.534	7.6	0.7	0.364
AUG	1	0.526	55.0	2.9		1.525	158.0	4.4		2.314	4.4	0.4	0.195
SEP	1	0.512	292.0	1.7		0.870	187.0	3.4		1.741	6.5	0.9	0.461
OCT	1	0.587	189.0	1.9		1.115	150.0	3.4		1.996	6.8	0.9	0.51
NOV	1	0.750	111.0	1.4		1.050	110.0	4.5		3.375	4.3	0.5	0.338
DEC	[ [	0.876	118.0 	3.9		3.416	97.0 	4.3		3.767	3.2 	1.2 *	1.051
AVERA	GE:	0.625	1 143.0	3.2		2.068	   152.0	4.1		2.527	1 5.3	0.6	0.379
OBSER	VATION	IS:12	1 12	12			1 12	12			1 12	12	
EXCEE	DANCES	3	ĺ				ĺ				İ	1	
NO OF	SAMPL	.ES	1 26	26			127	127			28	27	

COMPLIANCE :

CRITERIA :

NOTE :

BOD - YES SS - YES

TP - NO

BOD - 25 mg/l

SS - 25 mg/l

TP - 1.0 mg/l

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

\* - EXCEEDS EFFLUENT CRITERIA

ND - NO DATA

ANTICIPATED

REMEDIAL MEASURES

START DATE END DATE

COMPLIANCE

ENGINEERING STUDY PHASE

87/12/31

DISTRICT MUNICIPALITY : WEST LINCOLN : WEST CENTRAL PLANT : SMITHVILLE LAGOON : WELLAND

WORKS NUMBER: 120001229 OPERATING AUTHORITY : MUNICIPAL

> MAJOR BASIN : GREAT LAKES

: TWENTY MILE CREEK

WATERCOURSE

MINOR BASIN : LAKE ONTARIO DESIGN CAPACITY : 1.56 1000 m3 IJC DESIGNATION : INDIRECT

POPULATION SERVED: 1980

TREATMENT : CONVENTIONAL LAGOON SEASONAL

1987	AVG DAY	1	5 DA	Y BOD		1	SUSPEN	DED SOLI	DS	1 7	TOTAL PHO	SPHORUS
	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	1.073	1 118.0	15.5			86.0	19.3			5.4	2.4	
FEB	0.873	75.0	19.8			78.0	18.6			6.0	3.6	
MAR	1.067	51.0	49.0			51.0	28.5			3.4	3.4	
APR	1.512	74.0	27.7			104.0	148.0			4.1	2.4	
MAY	0.664	167.0	ND			158.0	ND			5.6	ND	
JUN	0.807	152.0	ND			379.0	ND			22.5	ND	
JUL	0.992	83.0	ND			58.0	ND			4.0	ND	
AUG	0.967	100.0	ND			134.0	ND			6.3	ND	
SEP	0.885	117.0	ND			112.0	ND			6.5	ND	
OCT	0.832	201.0	ND			108.0	ND			7.1	ND	
NOV	1.012	128.0	ND			136.0	ND			7.3	ND	
DEC	1.370	66.0	ND			108.0	ND			5.0	ND	
	<u> </u>	1				l I				1		
AVERA	GE: 1.005	1111.0	28.0		32.020	126.0	53.6 *		72.783	6.9	2.9	3.237
	VATIONS: 12 DANCES	12 	4			12	4			12 	4	
NO OF	SAMPLES	23	7			24	8			24	8	

COMPLIANCE : CRITERIA : NOTE :

> BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS BOD - YES BOD - 30 mg/l TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - NO SS - 40 mg/l \* - EXCEEDS EFFLUENT CRITERIA

TP - YES TP - NONE ND - NO DATA

ANTICIPATED REMEDIAL MEASURES START DATE END DATE COMPLIANCE

UNDER DISCUSSION WITH MUNICIPALITY 87/03/31 88/12/31

MUNICIPALITY : WILMOT PLANT : BADEN WPCP

WORKS NUMBER : 110001710

TREATMENT : EXTENDED AERATION

PHOSPHORUS REMOVAL - CONTINUOUS

REGION

: WEST CENTRAL

DISTRICT : CAMBRIDGE OPERATING AUTHORITY : MINISTRY

WATERCOURSE

MAJOR BASIN

: BADEN CREEK : GREAT LAKES

: LAKE ERIE

MINOR BASIN

DESIGN CAPACITY : 0.92 1000 m3

POPULATION SERVED : 1016 IJC DESIGNATION

: INDIRECT

1987	AVG DAY	1	5 DA	Y BOD		1	SUSPEN	DED SOLI	DS	1 .	TOTAL PHO	SPHORUS
	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	0.621	355.0	6.4		3.974	   159.0	5.9		3.664	l 18.9	0.7	0.416
FEB	0.586	428.0	9.4		5.508	177.0	5.7		3.340	14.5	1.0	0.557
MAR	0.873	190.0	3.6		3.143	116.0	3.8		3.317	9.3	0.6	0.559
APR	0.730	355.0	2.0		1.460	324.0	2.8		2.044	7.3	0.5	0.350
MAY	ND	557.0	4.0		ND	204.0	1.2		ND	13.3	0.6	ND
JUN	0.541	226.0	6.6		3.571	204.0	1.2		0.649	13.3	0.6	0.330
JUL	0.616	186.0	1.0		0.616	269.0	1.4		0.862	15.7	1.3 *	0.782
AUG	0.532	497.0	3.1		1.649	144.0	2.1		1.117	14.3	1.5 *	0.777
SEP	0.544	232.0	8.0		4.352	199.0	8.0		4.352	14.3	1.6 *	0.892
OCT	0.565	231.0	3.5		1.977	188.0	1.9		1.073	18.5	0.8	0.475
NOV	0.610	208.0	2.8		1.708	227.0	3.4		2.074	14.5	0.5	0.317
DEC	0.749	1020.0	5.5		4.120	871.0	9.3		6.966	23.0	0.7	0.554
	1	1								!		44
AVERA	GE: 0.633	374.0	4.7		2.916	257.0	3.9		2.678	  13.9	0.9	0.546
OBSER	VATIONS:11	12	12			12	12			1 12	12	
EXCEE	DANCES	1				1				Ī	3	
NO OF	SAMPLES	25	26			23	26			1 26	121	

COMPLIANCE :

CRITERIA :

NOTE :

BOD - YES

BOD - 25 mg/l

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - YES SS - 25 mg/l

\* - EXCEEDS EFFLUENT CRITERIA

TP - NO TP - 1.0 mg/l

ND - NO DATA

ANTICIPATED

REMEDIAL MEASURES

START DATE END DATE

COMPLIANCE

ENFORCING BY-LAWS

87/09/01 88/02/28 88/03/31

MUNICIPALITY : WILMOT REGION : WEST CENTRAL
PLANT : NEW HAMBURG LAGOON DISTRICT : CAMBRIDGE
WORKS NUMBER : 110000506 OPERATING AUTHORITY : MINISTRY

TREATMENT : AERATED CELL PLUS LAGOON WATERCOURSE : NITH RIVER

EFFLUENT POLISHING MAJOR BASIN : GREAT LAKES
CONTINUOUS DISCHARGE MINOR BASIN : LAKE ERIE
CAPACITY : 2.72 1000 m3 IJC DESIGNATION : INDIRECT

DESIGN CAPACITY : 2.72 1000 m3 IJC DESIGNATION

POPULATION SERVED: 3787

	T		1				1						
1987	į A	VG DAY	j	5 DA	Y BOD		i	SUSPEN	DED SOLI	DS	į ·	TOTAL PHO	SPHORUS
1		FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
<u> </u>	(100	00 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
   JAN	1	1.454	   344.0	4.5		6.543	   189.0	5.6		8.142	122 0	ND	ND
FEB	i	1.480	720.0	3.5			635.0	3.0		4.440	Moore or	1.0	1.436
MAR	i	2.052	115.0	ND		ND	87.0	ND			5.1	ND	ND
APR	i	2.148	211.0	1.4		3.007	140.0	1.6		3.437		0.5	1.010
MAY	Ì	1.429	239.0	1.1		1.572	168.0	7.2		10.289	9.6	0.4	0.600
JUN	1	1.320	182.0	0.6		0.792	209.0	0.8		1.056	18.6	0.6	0.779
JUL	1	1.420	96.0	1.0		1.420	78.0	0.6		0.852	6.8	0.8	1.065
AUG	1	1.248	254.0	0.8		0.998	184.0	0.4		0.499	11.5	0.6	0.699
SEP	1	1.200	177.0	8.0		0.960	166.0	0.2		0.240	12.4	0.7	0.792
OCT	ı	1.295	129.0	2.1		2.720	329.0	1.4		1.813	8.0	0.6	0.803
NOV	ł	1.470	141.0	5.0		7.350	160.0	0.7		1.029	11.1	0.5	0.779
DEC	ı	1.899	92.0	2.7		5.127	94.0	1.0		1.899	11.3	ND	ND
!	1		<u> </u>				<u> </u>				1		
AVER	AGE:	1.535	225.0	2.1		3.243	203.0	2.0		3.063	  11.7	0.6	0.885
OBSE	RVATIO	ONS:12	1 12	11			12	11			12	9	
EXCE	EDANCE	ES	1				l				ĺ		
NO 0	SAME	PLES	22	11			22	11			22	0	
1			1				1				l		

COMPLIANCE : CRITERIA : NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

BOD - YES BOD - 30 mg/L TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - YES SS - 40 mg/t \* - EXCEEDS EFFLUENT CRITERIA

TP - YES TP - 1.0 mg/l ND - NO DATA

ANTICIPATED

REMEDIAL MEASURES START DATE END DATE COMPLIANCE

MUNICIPALITY : WOOLWICH

PLANT : ELMIRA WPCP (COMBINED FLOW)

WORKS NUMBER : 110000150

TREATMENT : CONVENTIONAL ACTIVATED SLUDGE

PHOSPHORUS REMOVAL - CONTINUOUS

4.54 1000 m3

REGION

: WEST CENTRAL

DISTRICT : CAMBRIDGE

WATERCOURSE : CANAGAGIGUE CREEK

OPERATING AUTHORITY : MINISTRY

MAJOR BASIN

: GREAT LAKES

MINOR BASIN

: LAKE ERIE

DESIGN CAPACITY : POPULATION SERVED :

7090

IJC DESIGNATION : INDIRECT

DEGLAMATION	•	IND INCO

1987	AVG DAY	5 DAY BOD				SUSPENDED SOLIDS				TOTAL PHOSPHORUS		
	FLOW  (1000 m3/d)	INF  (mg/L)	EFF (mg/L)	(%REM)	LOAD (kg/d)	INF  (mg/L)	EFF (mg/L)	(%REM)		INF  (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	   3.502	214.0	3.8		13.308	   186.0	10.8		37.822	l 1 8.5	1.6 *	5.603
FEB	2.960	281.0	3.4		10.064	222.0	17.6		52.096	10.7	1.7 *	5.032
MAR	5.286	191.0	7.2		38.059	150.0	15.3		80.876	5.1	1.5 *	7.929
APR	5.165	215.0	3.1		16.012	212.0	12.8		66.112	7.9	0.9	4.649
MAY	3.514	305.0	4.7		16.516	220.0	18.0		63.252	10.7	1.5 *	5.271
JUN	4.353	289.0	1.4		6.094	250.0	15.0		65.295	10.2	0.5	2.176
JUL	4.766	351.0	1.8		8.579	231.0	14.0		66.724	8.9	0.4	1.906
AUG	4.237	148.0	2.5		10.593	203.0	15.4		65.250	1 7.4	0.4	1.695
SEP	4.147	172.0	1.5		6.221	223.0	7.6		31.517	7.0	0.6	2.488
OCT	4.311	296.0	2.4		10.346	229.0	14.1		60.785	5.5	0.4	1.724
NOV	5.033	266.0	8.9		44.794	223.0	23.9		120.289	5.6	0.6	3.020
DEC	5.748	202.0	9.1		52.307	209.0	15.2		87.370	7.4	0.5	2.874
	1	<u> </u>				<del> </del>				1		
AVERAGE: 4.418		244.0	4.1		19.408	213.0	15.0		66.449	7.9	0.9	3.697
OBSERVATIONS:12		12	12			12	12			12	12	
EXCEEDANCES		1				1				I	4	
NO OF SAMPLES		19	71			71	254			27	148	

COMPLIANCE :

CRITERIA :

NOTE :

BOD - YES BOD - 25 mg/l SS - YES SS - 25 mg/l TP - NO TP - 1.0 mg/l

TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

\* - EXCEEDS EFFLUENT CRITERIA ND - NO DATA

REMEDIAL MEASURES

START DATE END DATE

ANTICIPATED COMPLIANCE

UNDER DISCUSSION WITH MUNICIPALITY

1989

MUNICIPALITY : WOOLWICH

PLANT : ST.JACOBS PV WPCP

WORKS NUMBER : 110001211

TREATMENT : OXIDATION DITCH

PHOSPHORUS REMOVAL - CONTINUOUS

REGION

: WEST CENTRAL

DISTRICT

: CAMBRIDGE

OPERATING AUTHORITY : MINISTRY

WATERCOURSE : CONESTOGO RIVER

MAJOR BASIN

: GREAT LAKES

MINOR BASIN

: LAKE ERIE

DESIGN CAPACITY :

0.95 1000 m3

POPULATION SERVED : 1266

IJC DESIGNATION

: INDIRECT

	T		T				T						
1987	AV	G DAY	i	5 DA	Y BOD		1 ]	SUSPEN	DED SOLI	DS	l 	TOTAL PHO	SPHORUS
	F	LOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(100	0 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	1	1.031	1 165.0	6.5		6.701	165.0	44.7		46.086	   6.5	0.8	0.773
FEB	1	0.800	174.0	13.5		10.800	198.0	19.7		15.760	1 4.6	0.6	0.480
MAR	1	1.305	129.0	8.7		11.353	156.0	23.9		31.189	7.1	0.8	0.979
APR	1	1.420	82.0	3.5		4.970	159.0	14.6		20.732	7.0	0.9	1.264
MAY	1	0.894	221.0	3.3		2.950	256.0	14.3		12.784	7.3	0.5	0.465
JUN	1	0.790	193.0	6.5		5.135	477.0	16.8		13.272	9.3	1.1 *	0.845
JUL	1	0.932	109.0	7.3		6.804	170.0	16.5		15.378	6.3	0.6	0.531
AUG	1	1.040	65.0	3.0		3.120	138.0	12.8		13.312	6.4	0.8	0.811
SEP	1	0.828	130.0	4.3		3.560	198.0	11.5		9.522	7.2	0.6	0.464
OCT	1	0.966	554.0	20.2		19.513	278.0	46.8		45.209	6.0	0.8	0.753
NOV	1	1.054	969.0	18.9		19.921	257.0	23.1		24.347	5.3	0.6	0.611
DEC	!	1.187	105.0	3.8		4.511	254.0	12.5		14.838	4.3	0.7	0.867
	<u> </u>						!				<u> </u>		
AVERA	GE:	1.021	241.0	8.3		8.278	226.0	21.4		21.869	1 6.4	0.7	0.737
OBSER	OITAV	NS:12	12	12			12	12			1 12	12	SEVIES INTERV
EXCEE	DANCE	s	ľ				I				i	1	
NO OF	SAMP	LES	29	23			143	135			108	111	
			1				1				i		

COMPLIANCE : CRITERIA :

NOTE :

BOD - YES SS - YES

BOD - 25 mg/l SS - 25 mg/l

TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS. \* - EXCEEDS EFFLUENT CRITERIA

TP - NO TP - 1.0 mg/l

ND - NO DATA

ANTICIPATED

REMEDIAL MEASURES

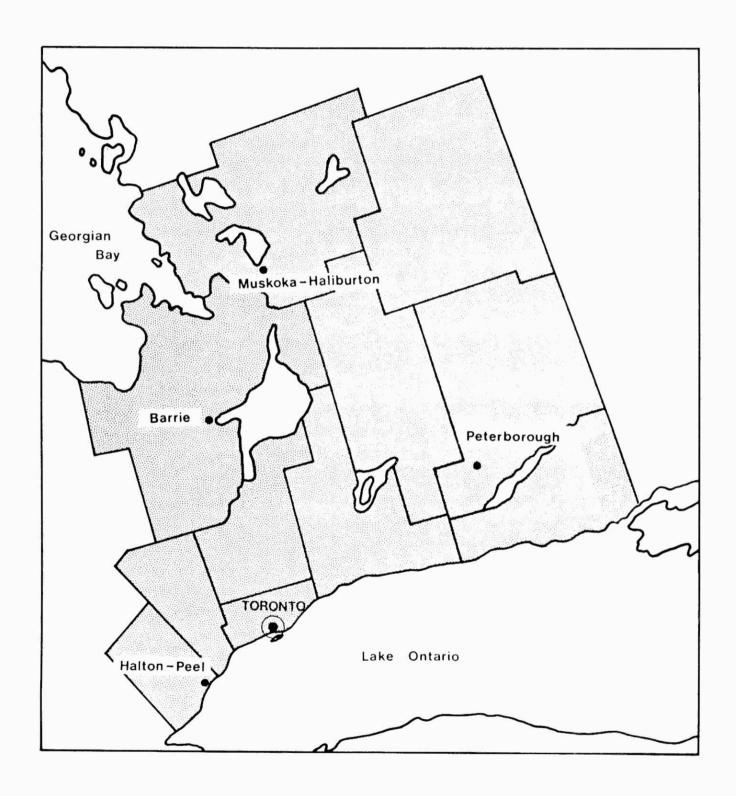
START DATE END DATE

COMPLIANCE

ENGINEERING STUDY PHASE

87/12/31

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS





# REGIONAL OFFICE

Toronto 7 Overlea Blvd. M4E 1A8 (416) 424-3000

# DISTRICT OFFICES

Barrie 12 Fairview Road L4N 4P3 (705) 726-1730

Halton-Peel 1226 White Oaks Blvd. Oakville L6H 2B9 (416) 844-5747

Metro Toronto East 7 Overlea Blvd. M4E 1A8 (416) 424-3008

Metro Toronto West 7 Overlea Blvd. M4E 1A8 (416) 424-3007

Muskoka-Haliburton Gravenhurst Plaza General Delivery POC 1G0 (705) 687-3408

Peterborough 139 George St. North K9J 3G6 (705) 743-2972

York-Durham 7 Overlea Blvd. M4E 1A8 (416) 424-3009

# CENTRAL SUMMARY - 1987

TREATMENT TYPE		NUMBER		100,500	DRAULIC LOADIN	
	MINISTRY	MUNICIPAL	TOTAL	MINISTRY	MUNICIPAL	TOTAL
Communal Septic Tank	0	1	23	.000	.090	.090 (.020)
Primary	0	0	0	.000	.000	.000
Conventional Activated Sludge	3	25	28	399.138	2,136.801	2,535.940 (557.840)
Modified Activated Sludge	0	0	0	.000	.000	.000
Contact Stabilization	1	2	3	1.045	4.500	5.546 (1.220)
Extended Aeration	12	11	23	35.995	37.286	73.281 (16.120)
Trickling Filter	0	0	0	.000	.000	.000
High Rate	0	1	1	.000	9.092	9.092
Oxidation Ditch	3	0	3	2.786	.000	2.786
Aerated Lagoon	0	0	0	.000	.000	.000
Conventional Lagoon Continuous	0	4	4	.000	19.147	19.147
Conventional Lagoon Seasonal	1	8	9	.581	11.724	12.306
Conventional Lagoon Annual	0	0	0	.000	.000	.000
Lagoon and Spray	1	0	1	.613	.000	.613 (.135)
Aerated Cell Plus Lagoon	0	2	2	.000	4.909	4.909
Exfiltration Lagoon	1	0	1	1.363	.000	1.363
TOTALS	22	54	76	441.525 (97.124)	2223.553 (489.182)	2665.078 (586.306)

103 m/d: THOUSANDS OF CUBIC METRES PER DAY

CONVERSION FACTOR

103 m<sup>3</sup> /d = 220 MIG mIgd: MILLION IMPERIAL GALLONS PER DAY

 $10^3 m^3/d = .220 MIGD$ 

01307-PDR.46

MUNICIPALITY : ALLISTON PLANT : ALLISTON WPCP WORKS NUMBER : 110001220

TREATMENT : EXTENDED AERATION

REGION

: CENTRAL

DISTRICT : BARRIE OPERATING AUTHORITY : MINISTRY WATERCOURSE : BOYNE RIVER

MAJOR BASIN

: GREAT LAKES

MINOR BASIN

: LAKE HURON

IJC DESIGNATION : INDIRECT

DESIGN CAPACITY : 3.50 1000 m3

POPULATION SERVED: 4674

1987	AVG DAY	1	5 DA	Y BOD		1	SUSPEN	DED SOLI	DS	1	TOTAL PHO	SPHORUS
	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	2.831	1 156.0	10.6		30.009	   146.0	8.3		23.497	   8.0	4.6	13.023
FEB	2.996	178.0	11.3		33.855	113.0	8.7		26.065	6.7	4.6	13.662
MAR	3.358	134.0	15.0		50.370	121.0	10.1		33.916	6.9	3.6	11.954
APR	3.549	97.0	4.8		17.035	86.0	5.2		18.455	5.5	3.5	12.457
MAY	3.066	112.0	7.8		23.915	90.0	7.5		22.995	7.0	4.4	13.337
JUN	3.272	163.0	7.0		22.904	110.0	9.5		31.084	8.1	4.4	14.39
JUL	3.230	131.0	17.0		54.910	124.0	15.6		50.388	7.0	5.7	18.41
AUG	3.215	94.0	8.7		27.970	103.0	13.9		44.688	8.3	5.5	17.71
SEP	3.243	149.0	7.5		24.322	104.0	12.0		38.916	8.1	5.1	16.57
OCT	3.123	110.0	4.8		14.990	66.0	6.7		20.924	8.0	5.8	18.20
NOV	3.259	139.0	4.2		13.688	172.0	6.4		20.858	11.0	6.1	20.01
DEC	3.246 	306.0 	9.3		30.188	252.0 	9.8		31.811	7.2 	5.3	17.20
AVERA	GE: 3.199	147.0	9.0		28.680	124.0	9.5		30.300	1 7.7	4.9	15.579
	VATIONS:12 DANCES	12 	12			12 	12			12	12	
NO OF	SAMPLES	27	27			27	27			27	27	

COMPLIANCE :

CRITERIA :

NOTE :

BOD - YES SS - YES

BOD - 25 mg/l

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS. \* - EXCEEDS EFFLUENT CRITERIA

TP - YES

SS - 25 mg/l TP - NONE

ND - NO DATA

ANTICIPATED

REMEDIAL MEASURES

START DATE END DATE

COMPLIANCE

FINAL DESIGN PHASE

89/12/01

89/12/31

MUNICIPALITY : ANSON HINDON MINDEN

REGION : CENTRAL

PLANT : MINDEN WPCP DISTRICT

WORKS NUMBER : 110002390

OPERATING AUTHORITY : MINISTRY

: MUSKOKA

TREATMENT

NOV

DEC |

AVERAGE:

EXCEEDANCES NO OF SAMPLES

| OBSERVATIONS:12

: EXTENDED AERATION

0.442 | 86.0

0.576 | 82.0

0.536 | 127.0

12

19

WATERCOURSE

: GULL RIVER

PHOSPHORUS REMOVAL - CONTINUOUS EFFLUENT POLISHING

MAJOR BASIN

: GREAT LAKES

DESIGN CAPACITY :

0.94 1000 m3

MINOR BASIN

: LAKE ONTARIO

POPULATION SERVED :

984

IJC DESIGNATION

: INDIRECT

1987	AVG DAY	1	5 DA	Y BOD			SUSPEN	DED SOLI	DS		TOTAL PHO	SPHORUS
	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	0.686	279.0	1.2		0.823	   215.0	1.1		0.755	7.3	0.5	0.322
FEB	0.676	181.0	7.4		5.002	171.0	1.4		0.946	7.1	0.7	0.460
MAR	0.521	146.0	7.9		4.116	179.0	0.9		0.469	6.3	0.2	0.078
APR	0.537	95.0	1.4		0.752	134.0	1.0		0.537	5.0	0.2	0.129
MAY	0.482	74.0	3.7		1.783	73.0	0.9		0.434	4.3	0.4	0.193
JUN	0.489	52.0	2.2		1.076	55.0	0.5		0.244	4.8	0.7	0.318
JUL	0.578	123.0	11.1		6.416	121.0	1.4		0.809	5.6	0.9	0.520
AUG	0.520	135.0	1.4		0.728	135.0	0.5		0.260	6.2	0.6	0.291
SEP	0.451	156.0	1.7		0.767	117.0	0.6		0.271	7.8	ND	ND
OCT	0.470	119.0	1.4		0.658	103.0	1.0		0.470	5.6	0.7	0.310

0.486 | 135.0

1.037 | 111.0

1.970 | 129.0

12

19

COMPLIANCE : CRITERIA : NOTE :

1.1

1.8

3.5

12

17

BOD - YES BOD - 25 mg/l SS - YES

SS - 25 mg/l TP - 1.0 mg/l

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

0.354 | 4.1

0.576 | 5.5

0.510 | 5.8

| 12

| 19

0.2

0.3

0.5

11

16

\* - EXCEEDS EFFLUENT CRITERIA

ND - NO DATA

0.8

1.0

0.9

12

17

ANTICIPATED

REMEDIAL MEASURES

TP - YES

START DATE END DATE

COMPLIANCE

0.102 |

0.196 |

0.265 |

TREATMENT : CONVENTIONAL ACTIVATED SLUDGE WATERCOURSE : KEMPENFELT BAY L. SIMCOE

PHOSPHORUS REMOVAL-CONTINUOUS MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE HURON

DESIGN CAPACITY : 27.27 1000 m3 IJC DESIGNATION : INDIRECT

POPULATION SERVED: 40000

1987	AVG DAY	1	5 DA	Y BOD			SUSPEN	DED SOLI	DS	1 ,	TOTAL PHO	SPHORUS
	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	24.936	1 168.0	8.4		209.462	   252.0	13.5		336.636	5.6	0.5	12.468
FEB	25.465	170.0	7.5		190.988	182.0	10.9		277.569	5.3	0.6	14.515
MAR	25.200	132.0	4.9		123.480	183.0	13.9		350.280	ND	0.6	14.364
APR	ND	ND	ND		ND	ND	ND		ND	ND	ND	ND
MAY	ND	ND	ND		ND	ND ND	ND		ND	ND	ND	ND
JUN	26.753	238.0	17.5		468.178	365.0	14.5		387.918	7.7	0.4	11.77
JUL	28.098	244.0	19.0		533.862	261.0	17.4		488.905	7.2	0.4	11.80
AUG	30.301	192.0	15.2		460.575	237.0	22.0		666.622	6.5	0.6	19.09
SEP	28.061	223.0	9.1		255.355	288.0	8.0		224.488	6.5	0.2	5.33
OCT	26.868	236.0	9.9		265.993	260.0	7.4		198.823	5.9	0.2	5.91
NOV	28.589	156.0	9.5		271.596	248.0	13.3		380.234	5.0	0.3	8.57
DEC	28.834	ND	15.3		441.160	174.0 	11.9		343.125	5.0 	0.6	15.85
AVERAG	E: 27.310	195.0	11.6		322.065	245.0	13.3		365.460	1 6.1	0.4	11.96
	ATIONS:10	9	10			10	10			9	10	
	SAMPLES	   30	44			70	264			69	287	

COMPLIANCE : CRITERIA : NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

BOD - YES BOD - 25 mg/l TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - YES SS - 25 mg/L \* - EXCEEDS EFFLUENT CRITERIA

TP - YES TP - 1.0 mg/l ND - NO DATA

REMEDIAL MEASURES ANTICIPATED

START DATE END DATE COMPLIANCE

START DATE COMPETANCE

DISTRICT : CENTRAL MUNICIPALITY : BEETON : BARRIE PLANT : BEETON LAGOON

WORKS NUMBER : 110000917 OPERATING AUTHORITY : MINISTRY

TREATMENT : EXFILTRATION LAGOON WATERCOURSE : NO DISC.TO SURFACE WATER

MAJOR BASIN : GREAT LAKES MINOR BASIN : LAKE HURON

IJC DESIGNATION : INDIRECT DESIGN CAPACITY : 1.36 1000 m3

2105 POPULATION SERVED :

1987	A\	G DAY	1		5 DA	Y BOD		ľ	SUSPEN	DED SOLI	DS	1 1	OTAL PHO	SPHORUS
		FLOW	1	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(100	00 m3/d)	10	mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d
JAN	 	0.915	1	182.0	ND		ND	   210.0	ND		ND	8.1	ND	ND
FEB	1	0.867	1	152.0	ND		ND	207.0	ND		ND	8.1	ND	ND
MAR	Ì	1.226	ĺ	92.0	ND		ND	100.0	ND		ND	5.5	ND	ND
APR	1	1.318	1	102.0	ND		ND	110.0	ND		ND	6.8	ND	ND
MAY	ĺ	1.016	Ĺ	111.0	ND		ND	100.0	ND		ND	6.6	ND	ND
JUN	ĺ	0.756	ĺ	104.0	ND		ND	169.0	ND		ND	6.0	ND	ND
JUL	ĺ	0.724	1	124.0	ND		ND	145.0	ND		ND	7.9	ND	ND
AUG	I	0.682	Ī	159.0	ND		ND	172.0	ND		ND	8.6	ND	ND
SEP	1	0.698	1	161.0	ND		ND	175.0	ND		ND	8.6	ND	ND
OCT	1	0.670	1	79.0	ND		ND	96.0	ND		ND	8.2	ND	ND
NOV	1	0.787	1	121.0	ND		ND	253.0	ND		ND	7.2	ND	ND
DEC		0.109	1	174.0	ND		ND	344.0	ND		ND	8.8 	ND	ND
AVERA	GE:	0.814	T	130.0	0.0		0.000	173.0	0.0		0.000	7.5	0.0	0.00
OBSER EXCEE		ONS:12 ES	ĺ	12	0			12	0			12 	0	
NO OF	SAM	PLES	i	12	0			12	0			12	0	

COMPLIANCE : CRITERIA : NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

BOD - NO DISCHARGE BOD - 30 mg/l TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - NO DISCHARGE SS - 40 mg/l \* - EXCEEDS EFFLUENT CRITERIA

TP - NO DISCHARGE TP - NONE ND - NO DATA

ANTICIPATED

REMEDIAL MEASURES START DATE END DATE COMPLIANCE

MUNICIPALITY : BICROFT REGION : CENTRAL
PLANT : CARDIFF LAGOON DISTRICT : MUSKOKA
WORKS NUMBER : 120001032 OPERATING AUTHORITY : MUNICIPAL

TREATMENT : CONVENTIONAL LAGOON CONTINUOUS WATERCOURSE : NO DISC.TO SURFACE WATER

MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ONTARIO

DESIGN CAPACITY : 0.45 1000 m3 IJC DESIGNATION : INDIRECT

POPULATION SERVED : 575

1987	AVG DA	r		5 DA	Y BOD		1	SUSPEN	DED SOLI	DS	1 1	TOTAL PHO	SPHORUS
	FLOW	1	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3,	/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	I ND	i	466.0	8.5		ND	960.0	10.8		ND	  18.5	0.4	ND
FEB	ND	- 1	1200.0	0.9		ND	470.0	8.3		ND	81.3	0.5	ND
MAR	ND	1	312.0	6.3		ND	456.0	4.0		ND	11.4	0.5	ND
APR	l ND	- 1	ND	ND		ND	ND	ND		ND	ND	ND	ND
MAY	ND	- 1	98.0	7.2		ND	220.0	10.7		ND	6.3	0.4	ND
JUN	ND	1	20.0	3.0		ND	52.0	13.0		ND	2.1	0.6	ND
JUL	ND	1	84.0	7.0		ND	59.0	14.1		ND	1 1.6	0.6	ND
AUG	ND	- 1	185.0	4.5		ND	172.0	17.5		ND	5.4	1.9	ND
SEP	ND	1	37.0	4.0		ND	33.0	5.2		ND	2.2	0.1	ND
OCT	ND	- 1	74.0	3.7		ND	39.0	15.5		ND	3.8	0.1	ND
NOV	ND	- 1	ND	ND		ND	ND	ND		ND	ND	ND	ND
DEC	I ND	1	46.0	2.5		ND	50.0 	9.7		ND	7.0	0.3	ND
AVERA	GE: 0.00	00	252.0	4.8		0.000	1 251.0	10.9		0.000	114.0	0.5	0.000
	VATIONS: (	) į	10	10			10	10			10	10	3.000
NO OF	SAMPLES	i	10	11			10	11			1 10	11	

COMPLIANCE : CRITERIA : NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
BOD - YES BOD - 30 mg/L TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - YES SS - 40 mg/L \* - EXCEEDS EFFLUENT CRITERIA

TP - YES TP - NONE ND - NO DATA

REMEDIAL MEASURES START DATE END DATE COMPLIANCE

SEWER REPAIR UNDERWAY 87/09/30

MUNICIPALITY : BOBCAYGEON

PLANT : BOBCAYGEON WPCP(SUMMER POP.SERVE 2480) REGION DISTRICT : CENTRAL : PETERBOROUGH

WORKS NUMBER: 110002498

OPERATING AUTHORITY : MINISTRY

TREATMENT : EXTENDED AERATION

WATERCOURSE

: BOBCAYGEON RIVER

PHOSPHORUS REMOVAL - CONTINUOUS

MAJOR BASIN

: GREAT LAKES

MINOR BASIN

: LAKE ONTARIO

DESIGN CAPACITY :

3.05 1000 m3

POPULATION SERVED :

1328

IJC DESIGNATION : INDIRECT

									82		T		
1987	İ	AVG DAY	İ	5 DA	Y BOD		b	SUSPEN	DED SOLI	DS	i ·	TOTAL PHO	SPHORUS
	1	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1	1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	1	0.721	   107.0	3.9		2.812	l I 96.0	7.4		5.335	152	0.2	0.159
FEB	i	0.645	90.0	15.2		9.804	1 68.0	8.3		5.354		1.3 *	0.139
MAR	i	0.816	88.0	7.8		6.365	63.0	7.5		6.120		0.5	0.400
APR	ì	1.048	46.0	11.0		11.528	40.0	10.5		11.004		0.6	0.618
MAY	1	0.785	75.0	3.9		3.062	93.0	6.6		5.181	100	0.2	0.188
JUN	1	0.852	64.0	10.6		9.031	79.0	3.5		2.982	3.5	0.2	0.136
JUL	4	0.978	283.0	10.0		9.780	108.0	7.1		6.944	5.2	0.3	0.244
AUG	١	0.982	86.0	2.6		2.553	76.0	2.9		2.848	12.6	0.2	0.187
SEP	١	0.897	66.0	1.8		1.615	157.0	4.9		4.395	6.4	0.4	0.350
ОСТ	١	0.847	112.0	2.5		2.118	99.0	3.9		3.303	7.5	0.2	0.203
NOV	-	0.852	89.0	2.0		1.704	93.0	8.0		6.816	6.1	0.5	0.417
DEC	ļ	0.890	128.0	12.6		11.214	162.0	7.6		6.764	4.1	0.7	0.605
	ı										ļ		
AVER	AGE:	0.859	1 103.0	7.0		5.966	   94.0	6.5		5.587	l I 5.4	0.4	0.361
OBSE	RVAT	IONS:12	12	12			12	12		- 10.	1 12	12	0.301
EXCE	EDAN	ICES	l				i				i	1	
NO O	F SA	MPLES	12	12			12	12			1 12	20	
			ĺ				ĺ				, 1	14 <del>5 3</del> 2.	

COMPLIANCE :

CRITERIA :

NOTE :

BOD - YES SS - YES

TP - NO

BOD - 25 mg/l SS - 25 mg/l

TP - 1.0 mg/l

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

\* - EXCEEDS EFFLUENT CRITERIA ND - NO DATA

REMEDIAL MEASURES

ANTICIPATED

START DATE END DATE

**COMPLIANCE** 

MARGINAL FAILURE-CONTINUE TO MAINTAIN AND MONITOR LEVEL OF FAILED PARAMETER



Environment Ontario Lahoratory Library 125 Resources Rd. Etobicoke, Ontario M9P 3V6 Canada

MUNICIPALITY: BRACEBRIDGE REGION: CENTRAL

PLANT : BRACEBRIDGE LAGOON DISTRICT : MUSKOKA - HALIBURTON

WORKS NUMBER: 120001979 OPERATING AUTHORITY: MUNICIPAL
TREATMENT: CONVENTIONAL LAGOON SEASONAL WATERCOURSE: MUSKOKA R.

: CONVENTIONAL LAGOON SEASONAL WATERCOURSE : MUSKOKA RIVER
PHOSPHORUS REMOVAL - BATCH MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE HURON

DESIGN CAPACITY : 2.06 1000 m3 IJC DESIGNATION : DIRECT

POPULATION SERVED : 0

I AV						3						
1 74	DAY	ŀ	5 DA	Y BOD		1	SUSPEN	DED SOLI	DS	1	TOTAL PHO	SPHORUS
Fl	-OW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
(1000	) m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
 	0.408	   195.0	ND			   132.0	ND			7.6	ND	
ĺ	ND	211.0	ND			126.0	ND			7.1	ND	
Ì	0.699	96.0	ND			80.0	ND			4.9	ND	
ĺ	0.903	106.0	ND			101.0	ND			6.9	ND	
Ì	0.937	152.0	3.5			214.0	9.8			6.2	0.4	
1	1.824	193.0	ND			606.0	ND			7.9	ND	
ĺ	2.345	ND ND	ND			ND	ND			ND	ND	
ĺ	2.224	ND	ND			ND	ND			ND	ND	
l	2.306	ND	ND			ND	ND			ND	ND	
ĺ	1.846	ND	ND			ND	ND			ND	ND	
1	ND	ND	7.0			ND	4.2			ND	0.5	
1	0.832	117.0 	ND			94.0 	ND			3.2	ND	
GE :	1.432	153.0	5.3		3.280	1 193.0	7.0		9.183	1 6.3	0.4	0.356
		j 7	2			7	2			7	2	
		10	6			1 10	6			10	6	
	(1000	0.408 ND 0.699 0.903 0.937 1.824 2.345 2.224 2.306 1.846 ND 0.832	(1000 m3/d)  (mg/L)  0.408   195.0  ND   211.0  0.699   96.0  0.903   106.0  0.937   152.0  1.824   193.0    2.345   ND    2.345   ND    2.306   ND    1.846   ND    ND   ND    0.832   117.0    GE: 1.432   153.0  VATIONS:10   7  DANCES	(1000 m3/d)   (mg/L) (mg/L)  0.408   195.0 ND  ND   211.0 ND  0.699   96.0 ND  0.903   106.0 ND  0.937   152.0 3.5  1.824   193.0 ND  2.345   ND ND  2.345   ND ND  2.224   ND ND  2.306   ND ND  1.846   ND ND  ND ND 7.0    0.832   117.0 ND  GE: 1.432   153.0 5.3  VATIONS:10   7 2  DANCES	(1000 m3/d)   (mg/L) (mg/L) (%REM)  0.408   195.0 ND ND   211.0 ND 0.699   96.0 ND 0.903   106.0 ND 0.937   152.0 3.5 1.824   193.0 ND   2.345   ND ND   2.345   ND ND   2.306   ND ND   1.846   ND ND   ND   ND 7.0   0.832   117.0 ND   0.832   117.0 ND   0.832   153.0 5.3   ATIONS:10   7 2	(1000 m3/d)   (mg/L) (mg/L) (%REM) (kg/d)  0.408   195.0 ND ND ND   211.0 ND   0.699   96.0 ND   0.903   106.0 ND   0.937   152.0 3.5   1.824   193.0 ND   2.345   ND ND   2.345   ND ND   2.306   ND ND   1.846   ND ND   0.832   117.0 ND   0.832   117.0 ND   0.832   117.0 ND   0.832   153.0 5.3 3.280   MATIONS:10   7 2	(1000 m3/d)   (mg/L) (mg/L) (%REM) (kg/d)   (mg/L)    0.408   195.0 ND   132.0    ND   211.0 ND   126.0    0.699   96.0 ND   80.0    0.903   106.0 ND   101.0    0.937   152.0 3.5   214.0    1.824   193.0 ND   606.0    2.345   ND ND   ND   ND    2.224   ND ND   ND   ND    2.306   ND ND   ND   ND    1.846   ND ND   ND   ND    ND   ND   ND   ND	(1000 m3/d)   (mg/L) (mg/L) (%REM) (kg/d)   (mg/L) (mg/L)	(1000 m3/d)   (mg/L) (mg/L) (%REM) (kg/d)   (mg/L) (mg/L) (%REM)	(1000 m3/d)   (mg/L) (mg/L) (%REM) (kg/d)   (mg/L) (mg/L) (%REM) (kg/d)	(1000 m3/d) (mg/L) (mg/L) (%REM) (kg/d) (mg/L) (mg/L) (%REM) (kg/d) (mg/L)  0.408   195.0 ND	(1000 m3/d)   (mg/L)   (mg/L)   (%REM)   (kg/d)   (mg/L)

COMPLIANCE : CRITERIA : NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

BOD - YES BOD - 30 mg/l TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - YES SS - 40 mg/l \* - EXCEEDS EFFLUENT CRITERIA

TP - YES TP - 1.0 mg/L ND - NO DATA

ANTICIPATED

REMEDIAL MEASURES START DATE END DATE COMPLIANCE

MUNICIPALITY : BRACEBRIDGE

PLANT : BRACEBRIDGE WPCP

WORKS NUMBER: 110000034

TREATMENT : EXTENDED AERATION

PHOSPHORUS REMOVAL - CONTINUOUS

EFFLUENT POLISHING

DESIGN CAPACITY : 3.19 1000 m3

: CENTRAL

DISTRICT OPERATING AUTHORITY : MUNICIPAL

: MUSKOKA

WATERCOURSE

: MUSKOKA RIVER

MAJOR BASIN

: GREAT LAKES

MINOR BASIN

: LAKE HURON

IJC DESIGNATION : INDIRECT

POPULATION SERVED : 2946

1987	AVG DAY	1	5 DA	Y BOD		1	SUSPEN	DED SOLI	DS	1	TOTAL PHO	SPHORUS
	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d
JAN	1.735	1 195.0	5.5		9.543	   132.0	5.3		9.196	7.6	0.4	0.69
FEB	1.978	211.0	3.7		7.319	126.0	8.1		16.022	7.1	0.5	0.989
MAR	2.683	96.0	4.4		11.805	80.0	6.5		17.439	4.9	0.3	0.80
APR	2.749	106.0	2.9		7.972	101.0	3.3		9.072	6.9	0.2	0.55
MAY	1.620	152.0	2.6		4.212	214.0	0.8		1.296	6.2	0.6	0.97
JUN	0.739	193.0	2.6		1.921	606.0	1.6		1.182	7.9	0.5	0.36
JUL	ND	ND	ND		ND	ND.	ND		ND	ND	ND	ND
AUG	ND	ND	ND		ND	ND	ND		ND	ND	ND	ND
SEP	ND ND	ND	ND		ND	ND	ND		ND	ND	ND	ND
OCT	0.553	ND	ND		ND	ND	ND		ND	ND	ND	ND
NOV	1.741	179.0	1.2		2.089	99.0	4.4		7.660	6.8	0.5	0.87
DEC	2.219 	117.0 	2.4		5.326	94.0 	7.1		15.755	3.2 	0.3	0.66
AVERA	GE: 1.780	156.0	3.2		6.273	182.0	4.6		9.703	6.3	0.4	0.74
	VATIONS: 9 DANCES	8 	8			8 	8			8 	8	
NO OF	SAMPLES	12	12			12	12			12	12	

COMPLIANCE :

CRITERIA :

NOTE :

BOD - YES SS - YES

TP - YES

BOD - 25 mg/l

SS - 25 mg/l TP - 1.0 mg/l

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

\* - EXCEEDS EFFLUENT CRITERIA

ND - NO DATA

ANTICIPATED COMPLIANCE

REMEDIAL MEASURES

PROGRAM UNDER REVIEW

START DATE END DATE

86/01/31 87/11/30

EXISTING EQUIPMENT/OPERATION IS BEING MODIFIED

86/01/31

87/11/30

MUNICIPALITY : BRADFORD REGION : CENTRAL DISTRICT PLANT : BRADFORD WPCP : BARRIE WORKS NUMBER : 110000944 OPERATING AUTHORITY : MINISTRY

TREATMENT : EXTENDED AERATION WATERCOURSE : SCHOMBERG RIVER

MAJOR BASIN : GREAT LAKES PHOSPHORUS REMOVAL - CONTINUOUS EFFLUENT POLISHING MINOR BASIN : LAKE HURON IJC DESIGNATION : INDIRECT DESIGN CAPACITY : 6.81 1000 m3

POPULATION SERVED: 11500

1987	AVG DAY			5 DA	Y BOD		1	SUSPEN	DED SOLI	DS	1	TOTAL PHO	SPHORUS
	FLOW		INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/	d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	3.45	2	   149.0	2.9		10.011	   502.0	1.7		5.868	   8.5	0.2	0.690
FEB	3.27	8	272.0	3.9		12.784	375.0	2.7		8.851	7.4	0.1	0.262
MAR	3.92	1	163.0	1.8		7.058	253.0	1.1		4.313	5.5	0.1	0.235
APR	4.52	2	175.0	2.5		11.305	187.0	1.2		5.426	7.0	0.1	0.226
MAY	3.29	8	443.0	6.4		21.107	247.0	1.2		3.958	10.7	0.1	0.198
JUN	3.51	8	59.0	1.4		4.925	282.0	2.9		10.202	8.0	0.0	0.14
JUL	4.27	3	124.0	3.8		16.237	373.0	2.3		9.828	4.9	0.2	0.68
AUG	3.65	2	158.0	4.1		14.973	402.0	1.5		5.478	7.8	0.3	1.059
SEP	4.02	3	158.0	2.9		11.667	608.0	4.9		19.713	6.8	0.3	1.12
OCT	3.77	0	159.0	4.6		17.342	447.0	2.0		7.540	6.7	0.1	0.490
NOV	4.23	5	120.0	6.0		25.410	507.0	1.6		6.776	5.2	0.1	0.466
DEC	4.57 	8	173.0 	2.0		9.156	279.0 	1.0		4.578	6.9	0.1	0.366
AVERA	GE: 3.87	7	179.0	3.5		13.498	372.0	2.0		7.711	7.1	0.1	0.49
	VATIONS:12 DANCES		12 	12			12 	12			12 	12	
NO OF	SAMPLES		16	18			224	220			1 16	178	

CRITERIA : COMPLIANCE : NOTE :

> BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS BOD - YES BOD - 25 mg/l TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - YES SS - 25 mg/l \* - EXCEEDS EFFLUENT CRITERIA

TP - YES TP - 1.0 mg/l ND - NO DATA

ANTICIPATED

REMEDIAL MEASURES START DATE END DATE COMPLIANCE

MUNICIPALITY : BRIGHTON REGION : CENTRAL PLANT : BRIGHTON LAGOON DISTRICT : PETERBOROUGH

WORKS NUMBER : 110000953 OPERATING AUTHORITY : MUNICIPAL

TREATMENT : AERATED CELL PLUS LAGOON WATERCOURSE : BUTLER CREEK CONTINUOUS DISCHARGE MAJOR BASIN : GREAT LAKES MINOR BASIN : LAKE ONTARIO PHOSPHORUS REMOVAL-CONTINUOUS

IJC DESIGNATION : INDIRECT DESIGN CAPACITY : 3.86 1000 m3

POPULATION SERVED: 3500

1987	AVG DAY	I	5 DA	Y BOD			SUSPEN	DED SOLI	DS	]	TOTAL PHO	SPHORUS
	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	2.873	28.0	4.6		13.216	38.0	1.8		5.171	   2.6	0.4	1.034
FEB	2.141	38.0	7.9		16.914	32.0	8.2		17.556	1.9	1.0	2.227
MAR	3.295	76.0	7.2		23.724	120.0	8.8		28.996	3.0	1.0	3.328
APR	3.841	17.0	13.2		50.701	18.0	19.1		73.363	1.0	0.8	2.996
MAY	2.577	50.0	3.8		9.793	48.0	7.1		18.297	3.5	1.0	2.500
JUN	2.082	65.0	5.2		10.826	62.0	5.6		11.659	6.3	1.2 *	2.519
JUL	2.282	32.0	2.0		4.564	37.0	4.5		10.269	2.4	0.6	1.43
AUG	2.650	40.0	5.1		13.515	56.0	1.6		4.240	3.9	0.8	2.22
SEP	ND	75.0	14.6		ND	76.0	2.5		ND	4.7	0.7	ND
OCT	ND	97.0	2.6		ND	98.0	6.3		ND	9.3	0.9	ND
NOV	ND	97.0	3.4		ND	160.0	5.0		ND	6.0	1.0	ND
DEC	4.336 	44.0	4.6		19.946	52.0 	3.7		16.043	2.5 	0.6	2.64
AVERA	GE: 2.897	55.0	6.2		18.133	66.0	6.2		20.622	3.9	0.8	2.32
OBSER	VATIONS: 9	12	12			12	12			12	12	
XCEE	DANCES	1				1				1	1	
IO OF	SAMPLES	12	12			12	12			12	12	

COMPLIANCE : CRITERIA: NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

BOD - YES BOD - 30 mg/l SS - 40 mg/l TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - YES \* - EXCEEDS EFFLUENT CRITERIA

ND - NO DATA TP - NO TP - 1.0 mg/l

ANTICIPATED REMEDIAL MEASURES START DATE END DATE COMPLIANCE

UNDER DISCUSSION WITH MUNICIPALITY

MUNICIPALITY : BROCK

PLANT : BEAVERTON RIVER 1 LAGOON (SUNDERLAND)

DISTRICT

: CENTRAL : YORK DURHAM

WORKS NUMBER : 120003496

TREATMENT : CONVENTIONAL LAGOON CONTINUOUS

WATERCOURSE

: NO DISC.TO SURFACE WATER

EXFILTRATION LAGOON

MAJOR BASIN

: GREAT LAKES

MINOR BASIN

: LAKE HURON

DESIGN CAPACITY :

0.75 1000 m3

IJC DESIGNATION : INDIRECT

OPERATING AUTHORITY : MUNICIPAL

POPULATION SERVED : 875

1987	AVG DAY	1	5 DA	Y BOD		Î	SUSPEN	DED SOLI	DS	į i	TOTAL PHO	SPHORUS
	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d
JAN	0.280	48.0	ND		ND	129.0	ND		ND	3.3	ND	ND
FEB	0.254	103.0	ND		ND	131.0	ND		ND	1 5.6	ND	ND
MAR	0.346	367.0	ND		ND	206.0	ND		ND	8.2	ND	ND
APR	0.395	231.0	ND		ND	133.0	ND		ND	ND	ND	ND
MAY	0.287	534.0	ND		ND	242.0	ND		ND	ND	ND	ND
JUN	0.288	158.0	ND		ND	181.0	ND		ND	4.5	ND	ND
JUL	0.324	ND	ND		ND	ND	ND		ND	ND	ND	ND
AUG	0.261	183.0	ND		ND	146.0	ND		ND	7.8	ND	ND
SEP	0.261	270.0	ND		ND	462.0	ND		ND	29.4	ND	ND
OCT	0.261	253.0	ND		ND	179.0	ND		ND	10.8	ND	ND
NOV	0.257	102.0	ND		ND	163.0	ND		ND	9.0	ND	ND
DEC	0.290 	534.0 	ND		ND	242.0 	ND		ND	ND	ND	ND
AVERAC	GE: 0.292	253.0	0.0		0.000	201.0	0.0		0.000	1 9.8	0.0	0.00
OBSERV	ATIONS:12	11	0			j 11	0			8	0	0.00
	DANCES	1				1				1		
O OF	SAMPLES	11	0			11	0			8	0	

COMPLIANCE :

CRITERIA :

NOTE :

BOD - NO DISCHARGE BOD - 30 mg/l SS - NO DISCHARGE SS - 40 mg/l BOD - NO DISCHARGE

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

\* - EXCEEDS EFFLUENT CRITERIA

TP - NO DISCHARGE TP - NONE

ND - NO DATA

ANTICIPATED

REMEDIAL MEASURES

START DATE END DATE

COMPLIANCE

MUNICIPALITY : BROCK : CENTRAL

DISTRICT PLANT : BEAVERTON RIVER 2 LAGOON (CANNINGTON) : YORK DURHAM WORKS NUMBER : 110001248 OPERATING AUTHORITY : MUNICIPAL

TREATMENT : CONVENTIONAL LAGOON SEASONAL WATERCOURSE : BEAVERTON RIVER

> MAJOR BASIN PHOSPHORUS REMOVAL - BATCH : GREAT LAKES MINOR BASIN : LAKE HURON

IJC DESIGNATION : INDIRECT DESIGN CAPACITY : 0.92 1000 m3

POPULATION SERVED: 1835

1987	AVG DAY	1	5 DA	Y BOD		I	SUSPEN	DED SOLI	DS	1	TOTAL PHO	SPHORUS
	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	0.646	238.0	ND			1 179.0	ND			  26.9	ND	
FEB	0.562	187.0	ND			312.0	ND			10.1	ND	
MAR	1.109	196.0	ND			218.0	ND			3.9	ND	
APR	1.235	53.0	12.4			91.0	15.7			1.7	0.3	
MAY	0.701	197.0	ND			262.0	ND			ND	ND	
JUN	0.650	164.0	ND			105.0	ND			4.6	ND	
JUL	0.864	88.0	ND			88.0	ND			2.8	ND	
AUG	0.627	90.0	ND			121.0	ND			3.6	ND	
SEP	0.597	132.0	ND			222.0	ND			9.9	ND	
OCT	0.695	319.0	ND			651.0	ND			18.8	ND	
NOV	0.966	41.0	4.0			99.0	ND			3.1	0.5	
DEC	1.210 	8.0 	ND			134.0 	ND			4.4	ND	
AVERA	GE: 0.822	143.0	8.2		9.589	207.0	15.7		19.390	8.2	0.4	0.38
	VATIONS:12 DANCES	12	2			1 12	1			j 11	2	
	SAMPLES	1 12	3			12	2			11	3	

COMPLIANCE : CRITERIA : NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

BOD - YES BOD - 30 mg/l TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - YES SS - 40 mg/l \* - EXCEEDS EFFLUENT CRITERIA

TP - YES TP - 1.0 mg/l ND - NO DATA

ANTICIPATED

REMEDIAL MEASURES START DATE END DATE COMPLIANCE

MUNICIPALITY : BROCK

REGION : CENTRAL DISTRICT

PLANT : LAKE SIMCOE LAGOON (BEAVERTON) : YORK DURHAM

WORKS NUMBER : 110000908

OPERATING AUTHORITY : MUNICIPAL

TREATMENT : CONVENTIONAL LAGOON SEASONAL

WATERCOURSE

: LAKE SIMCOE

PHOSPHORUS REMOVAL - BATCH

MAJOR BASIN MINOR BASIN

: GREAT LAKES : LAKE HURON

DESIGN CAPACITY :

1.73 1000 m3

: INDIRECT

POPULATION SERVED :

2570

IJC DESIGNATION

1987	AVG DAY	I	5 DA	Y BOD		1	SUSPEN	DED SOLI	DS	1 1	TOTAL PHO	SPHORUS
	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	1 1.441	1 110.0	ND			1 107.0	ND			7.8	ND	
FEB	1.032	133.0	ND			145.0	ND			7.1	ND	
MAR	2.511	125.0	ND			154.0	ND			5.9	ND	
APR	2.368	67.0	7.8			53.0	3.8			2.6	0.0	
MAY	1.169	201.0	ND			165.0	ND			ND	ND	
JUN	1.055	199.0	ND			189.0	ND			7.8	ND	
JUL	1.129	131.0	ND			363.0	ND			5.7	ND	
AUG	0.897	350.0	ND			554.0	ND			13.5	ND	
SEP	0.916	137.0	ND			359.0	ND			7.0	ND	
OCT	0.992	161.0	4.2			217.0	4.0			12.2	0.1	
NOV	1.386	151.0	6.3			974.0	1.2			9.8	0.2	
DEC	2.275	61.0 	ND			67.0 	ND			5.4 	ND	
AVERA	GE: 1.431	152.0	6.1		10.456	1 279.0	3.0		4.876	1 7.7	0.1	0.162
	VATIONS:12 DANCES	i 12	3			12	3			111	3	52.65
NO OF	SAMPLES	1 13	7			1 13	7			1 12	6	

COMPLIANCE :

CRITERIA :

BOD - 30 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - YES SS - 40 mg/l TP - YES TP - 1.0 mg/l \* - EXCEEDS EFFLUENT CRITERIA

ND - NO DATA

ANTICIPATED

REMEDIAL MEASURES

BOD - YES

START DATE END DATE

COMPLIANCE

MUNICIPALITY : BURLINGTON PLANT : SKYWAY WPCP

WORKS NUMBER: 110000070

: CONVENTIONAL ACTIVATED SLUDGE

PHOSPHORUS REMOVAL - CONTINUOUS

DISTRICT

: CENTRAL : HALTON PEEL

OPERATING AUTHORITY : MUNICIPAL WATERCOURSE

: HAMILTON HARBOUR

MAJOR BASIN

: GREAT LAKES

MINOR BASIN

: LAKE ONTARIO

IJC DESIGNATION

REGION

: DIRECT

DESIGN CAPACITY :

TREATMENT

93.19 1000 m3

POPULATION SERVED: 120100

1987 | AVG DAY 5 DAY BOD SUSPENDED SOLIDS TOTAL PHOSPHORUS FLOW INF EFF LOAD INF EFF LOAD INF EFF LOAD |(1000 m3/d) |(mg/L) (mg/L) (%REM) (kg/d) |(mg/L) (mg/L) (%REM) (kg/d) (mg/L) (mg/L) (kg/d) | 70.930 | 117.0 JAN 21.8 1546.274 | 170.0 21.9 1553.367 | 4.7 1.0 70.930 | FEB 66.305 | 251.0 14.9 987.945 | 336.0 6.4 424.352 | 15.7 0.6 39.783 | MAR 72.078 | 177.0 8.8 634.286 | 168.0 7.7 555.001 | 7.5 0.6 43.247 APR 85.038 | 133.0 7.8 663.296 | 139.0 6.3 535.739 | 7.2 0.8 68.030 I MAY 63.308 1 200.0 9.0 569.772 | 191.0 7.0 443.156 | 12.3 0.7 44.316 | 63.876 | 144.0 JUIN 5.2 332.155 | 184.0 6.6 421.582 | 8.8 0.9 57.488 | 67.158 | 131.0 4.1

JUL 275.348 | 153.0 6.2 416.380 | 8.4 0.7 47.011 I AUG 65.525 | 153.0 5.4 353.835 | 175.0 2.7 176.918 | 3.7 0.7 45.867 SEP 62.609 | 169.0 3.4 212.871 | 247.0 3.4 212.871 | 6.3 0.5 31.305 | OCT 57.598 | 176.0 14.2 817.892 | 230.0 8.5 489.583 | 7.1 0.6 34.559 1 NOV 59.839 | 235.0 7.8 466.744 | 397.0 436.825 | 9.3 7.3 0.5 29.919 DEC 70.123 | 225.0 652.144 | 157.0 9.3 4.0 280.492 | 3.3 0.4 28.049 | AVERAGE: 67.032 1 176.0 9.3 626.047 | 212.0 7.3 495.522 | 7.9 0.7 45.042 | OBSERVATIONS: 12 12 12 12 12 12 12 **EXCEEDANCES** NO OF SAMPLES 48 47 49 49 1 49 49

COMPLIANCE :

CRITERIA :

NOTE :

BOD - YES BOD - 25 mg/l SS - YES SS - 25 mg/l BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

\* - EXCEEDS EFFLUENT CRITERIA

TP - 1.0 mg/l ND - NO DATA

ANTICIPATED

REMEDIAL MEASURES

TP - YES

START DATE END DATE

COMPLIANCE

MUNICIPALITY : CAMPBELLFORD PLANT : CAMPBELLFORD WPCP

WORKS NUMBER : 110000962

TREATMENT : CONVENTIONAL ACTIVATED SLUDGE

PHOSPHORUS REMOVAL - CONTINUOUS

REGION : CENTRAL

DISTRICT : PETERBOROUGH

OPERATING AUTHORITY : MINISTRY

WATERCOURSE : TRENT RIVER

MAJOR BASIN : GREAT LAKES MINOR BASIN

: LAKE ONTARIO

IJC DESIGNATION : INDIRECT

DESIGN CAPACITY : 5.90 1000 m3

POPULATION SERVED : 3247

1987	AVG DAY	- 1		5 DA	Y BOD		1	SUSPEN	DED SOLI	DS	1	TOTAL PHO	SPHORUS
	FLOW	1	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/c	0	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d
JAN	5.684	1	27.0	6.4		36.378	   55.0	4.2		23.873	   1.8	0.9	5.34
FEB	5.036	1	56.0	12.5		62.950	30.0	5.2		26.187	2.6	1.1 *	5.59
MAR	8.245	1	23.0	8.7		71.731	45.0	5.6		46.172	1.4	0.8	6.34
APR	8.383	1	38.0	3.4		28.502	60.0	5.0		41.915	1.4	0.6	5.19
MAY	6.135	1	36.0	ND		ND	41.0	5.0		30.675	2.0	0.9	5.58
JUN	6.250	1	14.0	3.8		23.750	29.0	4.0		25.000	1.8	1.1 *	6.87
JUL	5.87	'	25.0	1.3		7.640	28.0	5.7		33.499	1.9	1.2 *	7.05
AUG	5.823	1	79.0	5.8		33.773	24.0	4.9		28.533	1.8	0.7	4.30
SEP	5.627	'	65.0	3.8		21.383	149.0	6.5		36.575	2.8	0.5	2.75
OCT	5.423	1	34.0	3.9		21.150	24.0	5.5		29.826	2.3	0.6	3.47
NOV	5.717	'	44.0	5.2		29.728	63.0	3.5		20.009	2.9	0.4	2.51
DEC	7.80 <i>6</i> 	1	22.0	3.9		30.443	22.0 	4.3		33.566	1.9 	0.3	2.34
AVERA	GE: 6.334	1	39.0	5.3		33.403	48.0	5.0		31.319	2.1	0.8	4.78
	VATIONS:12 DANCES	I	12	11			12	12			12	12 3	
	SAMPLES	i	12	12			22	24			   19	106	

COMPLIANCE :

CRITERIA :

NOTE :

BOD - YES BOD - 25 mg/l SS - YES SS - 25 mg/l

TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS. \* - EXCEEDS EFFLUENT CRITERIA

TP - NO TP - 1.0 mg/l ND - NO DATA

ANTICIPATED

REMEDIAL MEASURES START DATE END DATE COMPLIANCE

UNDER DISCUSSION WITH MUNICIPALITY

FACILITY OPERATIONAL

CONDUCTING TREATABILITY STUDIES

87/09/01 87/10/31

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

87/04/01 87/04/30

MUNICIPALITY : COBOURG : CENTRAL

DISTRICT PLANT : COBOURG WPCP NO 1 : PETERBOROUGH WORKS NUMBER : 120000097 OPERATING AUTHORITY : MUNICIPAL

WATERCOURSE TREATMENT : CONVENTIONAL ACTIVATED SLUDGE : COBOURG BROOK

PHOSPHORUS REMOVAL - CONTINUOUS MAJOR BASIN : GREAT LAKES MINOR BASIN : LAKE ONTARIO

IJC DESIGNATION : INDIRECT DESIGN CAPACITY : 16.04 1000 m3

POPULATION SERVED : 5500

1987	AVG DAY	1	5 DA	Y BOD			SUSPEN	DED SOLI	DS	1	OTAL PHO	SPHORUS
	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d
JAN	7.984	522.0	9.7		77.445	   355.0	10.3		82.235	   3.4	0.4	2.95
FEB	7.152	573.0	21.4		153.053	329.0	12.8		91.546	ND	0.8	5.36
MAR	8.844	537.0	40.9		361.720	465.0	42.6		376.754	6.4	1.4 *	12.64
APR	10.767	476.0	38.2		411.299	327.0	25.9		278.865	4.6	0.6	5.92
1AY	8.697	627.0	21.4		186.116	345.0	16.5		143.500	5.4	0.6	4.87
JUN	6.814	729.0	17.1		116.519	466.0	10.1		68.821	5.6	0.5	3.27
IUL	5.592	572.0	14.1		78.847	429.0	9.3		52.006	5.7	0.7	4.08
AUG	5.614	557.0	12.4		69.614	414.0	10.8		60.631	7.4	0.6	3.59
SEP	6.819	566.0	15.5		105.695	369.0	9.2		62.735	4.4	1.7 *	11.38
OCT	6.581	554.0	10.7		70.417	336.0	10.0		65.810	7.1	1.4 *	9.34
VOV	7.709	403.0	15.5		119.489	269.0	16.4		126.428	3.7	1.4 *	10.63
DEC	8.612 	360.0	16.0		137.792	280.0 	10.9		93.871	4.0 	0.8	6.71
AVERA	GE: 7.599	540.0	19.4		157.334	365.0	15.4		125.267	5.2	0.9	6.73
OBSER	VATIONS:12	12	12			12	12			11	12	
XCEE	DANCES	1				l				İ	4	
O OF	SAMPLES	147	132			249	243			I 61	75	

COMPLIANCE : CRITERIA : NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

BOD - 25 mg/l SS - 25 mg/l BOD - YES TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - YES \* - EXCEEDS EFFLUENT CRITERIA

TP - NO TP - 1.0 mg/l ND - NO DATA

ANTICIPATED

REMEDIAL MEASURES START DATE END DATE COMPLIANCE

ENFORCING SEWER-USE BYLAW

CONTINUOUS PHOSPHORUS REMOVAL FACILITIES BEING INSTALLED

89/01/01

MUNICIPALITY : COBOURG REGION : CENTRAL PLANT : COBOURG WPCP NO 2 DISTRICT : PETERBOROUGH

WORKS NUMBER: 120003192 OPERATING AUTHORITY : MUNICIPAL

TREATMENT : EXTENDED AERATION WATERCOURSE : LAKE ONTARIO

PHOSPHORUS REMOVAL - CONTINUOUS MAJOR BASIN : GREAT LAKES MINOR BASIN : LAKE ONTARIO

DESIGN CAPACITY : 5.86 1000 m3 IJC DESIGNATION : DIRECT

POPULATION SERVED: 5500

1987	AVG DAY	1	5 DA	Y BOD			SUSPEN	DED SOLI	DS	1 1	TOTAL PHO	SPHORUS
	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d
JAN	5.667	1 111.0	29.6		167.743	83.0	10.7		60.637	2.4	0.8	4.76
FEB	3.465	166.0	20.7		71.725	188.0	22.5		77.962	3.2	0.8	2.59
MAR	3.682	103.0	6.9		25.406	137.0	14.6		53.757	2.2	0.5	1.804
APR	4.916	100.0	9.4		46.210	195.0	19.2		94.387	2.6	0.6	2.90
MAY	2.846	86.0	9.7		27.606	160.0	12.5		35.575	2.7	1.1 *	2.98
JUN	3.071	105.0	5.7		17.505	164.0	8.7		26.718	2.7	0.5	1.65
JUL	3.547	152.0	5.8		20.573	164.0	8.9		31.568	4.2	0.8	2.87
AUG	3.145	114.0	5.8		18.241	185.0	8.7		27.361	3.5	0.4	1.25
SEP	2.848	129.0	5.3		15.094	237.0	9.7		27.626	3.9	1.0	2.82
OCT	2.268	147.0	4.1		9.299	232.0	8.1		18.371	4.9	0.5	1.20
NOV	2.268	131.0	10.4		23.587	193.0	13.0		29.484	5.2	0.5	1.17
DEC	2.978	102.0 	16.0		47.648	179.0 	18.8		55.986	4.1 	0.7	2.02
AVERA	GE: 3.392	1 120.0	10.8		40.886	   176.0	13.0		44.953	3.5	0.7	2.339
OBSER	VATIONS:12	1 12	12			1 12	12			1 12	12	
EXCEE	DANCES	1				i				1	1	
NO OF	SAMPLES	90	97			177	212			1 50	53	

NOTE : COMPLIANCE : CRITERIA :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS BOD - YES BOD - 25 mg/l TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - 25 mg/l \* - EXCEEDS EFFLUENT CRITERIA ND - NO DATA SS - YES

TP - NO TP - 1.0 mg/l

ANTICIPATED REMEDIAL MEASURES START DATE END DATE COMPLIANCE

MARGINAL FAILURE-CONTINUE TO MAINTAIN AND MONITOR LEVEL OF FAILED PARAMETER

MUNICIPALITY : COLBORNE DISTRICT PLANT : COLBORNE WPCP WORKS NUMBER : 120000088 OPERATING AUTHORITY : MUNICIPAL

TREATMENT : EXTENDED AERATION WATERCOURSE : COLBORNE CREEK

> MAJOR BASIN POLISHING LAGOON(S) : GREAT LAKES MINOR BASIN : LAKE ONTARIO DENITRIFICATION

: CENTRAL

: PETERBOROUGH

DESIGN CAPACITY : 6.25 1000 m3 IJC DESIGNATION : INDIRECT

POPULATION SERVED: 1800

1987	AVG DAY	1	5 DA	Y BOD		l	SUSPEN	DED SOLI	DS	1	TOTAL PHO	SPHORUS
	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d
JAN	0.755	83.0	1.6		1.208	   69.0	0.6		0.453	4.2	0.1	0.098
FEB	0.652	51.0	2.2		1.434	26.0	0.1		0.065	2.8	0.2	0.12
MAR	1.282	22.0	5.2		6.666	93.0	11.6		14.871	1.9	0.2	0.23
APR	1.432	54.0	14.9		21.337	59.0	32.9		47.113	3.2	0.1	0.200
MAY	0.844	31.0	4.7		3.967	26.0	2.5		2.110	2.4	0.2	0.16
JUN	0.905	92.0	1.8		1.629	84.0	1.1		0.996	5.3	0.2	0.20
JUL	0.805	51.0	3.2		2.576	56.0	2.8		2.254	3.5	0.3	0.22
AUG	0.734	117.0	1.8		1.321	106.0	0.5		0.367	7.5	0.2	0.13
SEP	0.746	153.0	3.4		2.536	210.0	1.6		1.194	7.6	0.4	0.28
OCT	0.667	76.0	1.5		1.001	96.0	1.5		1.001	6.6	0.3	0.19
NOV	0.667	120.0	1.3		0.867	78.0	1.3		0.867	3.9	0.3	0.17
DEC	1.162 	64.0 	1.7		1.975	38.0 	0.9		1.046	2.9 	0.2	0.19
AVERA	GE: 0.888	   76.0	3.6		3.876	78.0	4.8		6.028	1 4.3	0.2	0.18
	VATIONS:12 DANCES	12 	12			12 	12			12	12	
NO OF	SAMPLES	12	12			12	12			12	12	

COMPLIANCE : CRITERIA : NOTE :

> BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS BOD - YES BOD - 25 mg/l TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - YES SS - 25 mg/l \* - EXCEEDS EFFLUENT CRITERIA

TP - NONE TP - YES ND - NO DATA

ANTICIPATED REMEDIAL MEASURES START DATE END DATE COMPLIANCE

TREATMENT : EXTENDED AERATION WATERCOURSE : COLDWATER RIVER

MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE HURON

DESIGN CAPACITY: 0.54 1000 m3 IJC DESIGNATION: INDIRECT

POPULATION SERVED: 761

1987	AVG DAY	1	5 DA	Y BOD			SUSPEN	DED SOLI	DS	1 1	TOTAL PHO	SPHORUS
	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	0.362	1 107.0	5.8		2.100	   99.0	6.9		2.498	5.3	3.2	1.166
FEB	0.357	142.0	12.4		4.427	99.0	16.4		5.855	4.3	3.0	1.067
MAR	0.614	76.0	9.3		5.710	90.0	8.9		5.465	4.0	2.4	1.486
APR	0.482	110.0	1.3		0.627	142.0	3.1		1.494	5.6	1.2	0.559
MAY	0.315	229.0	27.1		8.537	316.0	5.9		1.859	7.7	4.2	1.310
JUN	0.306	156.0	14.2		4.345	170.0	18.0		5.508	6.2	3.5	1.065
JUL	0.316	85.0	5.2		1.643	120.0	16.1		5.088	5.5	3.3	1.027
AUG	0.314	109.0	4.7		1.476	94.0	8.7		2.732	6.5	5.1	1.589
SEP	0.287	147.0	6.7		1.923	113.0	6.5		1.865	7.4	3.4	0.970
OCT	0.304	158.0	3.1		0.942	83.0	7.6		2.310	6.5	5.5	1.657
NOV	0.356	116.0	4.3		1.531	97.0	9.5		3.382	7.4	4.0	1.438
DEC	0.451	74.0 	6.5		2.932	75.0 	11.7		5.277	4.7 	3.3	1.484
AVERA	GE: 0.372	1 126.0	8.4		3.016	125.0	9.9		3.611	5.9	3.5	1.235
	VATIONS:12	12 	12			12 	12			12 	12	
NO OF	SAMPLES	1 17	17			17	17			17	17	

COMPLIANCE : CRITERIA : NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

BOD - YES BOD - 25 mg/l TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - YES SS - 25 mg/l \* - EXCEEDS EFFLUENT CRITERIA

TP - YES TP - NONE ND - NO DATA

ANTICIPATED

REMEDIAL MEASURES START DATE END DATE COMPLIANCE

MUNICIPALITY : COLLINGWOOD PLANT

: COLLINGWOOD WPCP

WORKS NUMBER : 120000550

TREATMENT : CONVENTIONAL ACTIVATED SLUDGE

PHOSPHORUS REMOVAL - CONTINUOUS

REGION

: CENTRAL

DISTRICT

: BARRIE

OPERATING AUTHORITY : MUNICIPAL

WATERCOURSE

: GEORGIAN BAY

MAJOR BASIN

: GREAT LAKES

MINOR BASIN

: LAKE HURON

IJC DESIGNATION

: DIRECT

DESIGN CAPACITY : 24.54 1000 m3

POPULATION SERVED: 11500

		1										
1987	AVG DAY	l	5 DA	Y BOD		Ì	SUSPEN	DED SOLI	DS	1	TOTAL PHO	SPHORUS
	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d
JAN	14.124	185.0	6.0		84.744	1 160.0	8.0		112.992	  11.7	1.5 *	21.186
FEB	12.678	168.0	5.0		63.390	129.0	11.0		139.458	7.2	0.9	11.410
MAR	18.745	120.0	6.7		125.592	83.0	22.0		412.390	7.2	1.6 *	29.99
APR	19.331	143.0	13.7		264.835	104.0	18.6		359.557	5.5	1.3 *	25.130
MAY	15.103	122.0	2.4		36.247	144.0	8.0		120.824	14.0	0.6	9.06
JUN	15.516	124.0	2.9		44.996	154.0	11.4		176.882	10.0	0.5	7.75
JUL	15.157	104.0	4.0		60.628	126.0	18.0		272.826	3.3	0.3	4.54
AUG	16.165	90.0	2.4		38.796	129.0	17.4		281.271	10.5	0.8	12.93
SEP	13.891	150.0	7.0		97.237	179.0	12.0		166.692	3.6	0.6	8.33
OCT	14.500	133.0	5.9		85.550	103.0	6.4		92.800	4.7	0.5	7.83
NOV	17.182	133.0	7.0		120.274	79.0	8.0		137.456	4.9	0.9	14.60
DEC	20.682 	76.0 	6.0		124.092	73.0 	9.0		186.138	3.5	0.5	10.34
AVERA	GE: 16.089	129.0	5.8		95.532	122.0	12.5		204.941	7.2	0.8	13.59
OBSER	VATIONS: 12	12	12			1 12	12			1 12	12	
EXCEE	DANCES	1				1				1	3	
NO OF	SAMPLES	91	91			220	197			218	212	

COMPLIANCE :

CRITERIA :

NOTE :

BOD - YES SS - YES

TP - NO

REMEDIAL MEASURES

BOD - 25 mg/l

SS - 25 mg/l TP - 1.0 mg/l BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

\* - EXCEEDS EFFLUENT CRITERIA

ND - NO DATA

ANTICIPATED

START DATE END DATE

COMPLIANCE

PHOSPHORUS REMOVAL OPERATION UNDER REVIEW

MUNICIPALITY : COOKSTOWN REGION DISTRICT : CENTRAL

PLANT : COOKSTOWN WPCP (IN OPERATION 1987)

WORKS NUMBER : 110002265 OPERATING AUTHORITY : MINISTRY

TREATMENT : EXTENDED AERATION WATERCOURSE

MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE HURON

IJC DESIGNATION : DESIGN CAPACITY : 0.00 1000 m3

POPULATION SERVED : 0

1987	AV	G DAY	1	5 DA	Y BOD		1	SUSPEN	DED SOLI	DS	1	TOTAL PHO	SPHORUS
	F	LOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(100	0 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d
JAN	! !	ND	ND	ND		ND	ND	ND		ND	ND	ND	ND
FEB	1	ND	ND ND	ND		ND	ND	ND		ND	ND	ND	ND
4AR	1	ND	ND ND	ND		ND	ND	ND		ND	ND	ND	ND
APR	1	ND	ND	ND		ND	ND	ND		ND	ND	ND	ND
YAP	1	ND	ND	ND		ND	ND	ND		ND	ND	ND	ND
JUN	1	ND	ND	ND		ND	ND	ND		ND	ND	ND	ND
IUL	1	ND	ND	ND		ND	ND	ND		ND	ND	ND	ND
NUG	I	ND	ND	ND		ND	ND	ND		ND	ND	ND	ND
SEP	1	ND	ND	ND		ND	ND	ND		ND	ND	ND	ND
OCT	1	ND	ND	ND		ND	ND	ND		ND	ND	ND	ND
VOV		ND	ND	ND		ND	ND	ND		ND	ND	ND	ND
DEC	1	ND	ND	ND		ND	ND	ND		ND	ND	ND	ND
	1		1				1				1		
	US 20		1				1				T	V2000000	
AVERA		0.000	0.0	0.0		0.000	0.0	0.0		0.000	0.0	0.0	0.00
	DANCE	NS: 0 S	0 	0			0	0			0 	0	
10 OF	SAMP	LES	0	0			0	0			0	0	
			T				Î				Ì		

NOTE : COMPLIANCE : CRITERIA :

BOD - INSUFFICIENT DATA BOD - 25 mg/l SS - INSUFFICIENT DATA SS - 25 mg/l

TP - INSUFFICIENT DATA TP - NONE

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

\* - EXCEEDS EFFLUENT CRITERIA

ND - NO DATA

ANTICIPATED

START DATE END DATE

COMPLIANCE

NONE

REMEDIAL MEASURES

MUNICIPALITY : DYSART-ET-AL

PLANT : HALIBURTON WPCP

WORKS NUMBER : 110001603

TREATMENT : EXTENDED AERATION

PHOSPHORUS REMOVAL - CONTINUOUS

EFFLUENT POLISHING

DESIGN CAPACITY : 0.95 1000 m3

POPULATION SERVED: 875

REGION

: CENTRAL

DISTRICT : MUSKOKA

WATERCOURSE

OPERATING AUTHORITY : MUNICIPAL : DRAG R. TO GRASS LAKE

MAJOR BASIN MINOR BASIN

: GREAT LAKES : LAKE ONTARIO

IJC DESIGNATION : INDIRECT

1987	AVG DAY	1	5 DA	Y BOD		1	SUSPEN	DED SOLI	DS	'	TOTAL PHO	SPHORUS
	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d
JAN	0.201	195.0	0.9		0.181	l   98.0	1.3		0.261	6.2	0.1	0.02
FEB	0.212	32.0	7.5		1.590	20.0	4.2		0.890	2.2	0.3	0.05
MAR	0.253	109.0	6.4		1.619	92.0	5.3		1.341	4.8	0.3	0.06
APR	0.392	ND	ND		ND	ND	ND		ND	ND	ND	ND
MAY	0.336	45.0	3.6		1.210	25.0	7.2		2.419	1.8	0.5	0.16
JUN	0.402	29.0	8.4		3.377	29.0	5.6		2.251	5.5	1.0	0.40
JUL	0.343	67.0	4.5		1.544	41.0	3.5		1.201	3.3	0.5	0.16
AUG	0.325	127.0	3.6		1.170	73.0	4.6		1.495	8.1	0.6	0.19
SEP	0.336	73.0	1.4		0.470	65.0	2.3		0.773	4.7	0.4	0.14
OCT	0.354	68.0	10.6		3.752	55.0	9.2		3.257	5.6	1.0	0.34
NOV	0.376	49.0	7.0		2.632	77.0	5.1		1.918	7.5	0.3	0.09
DEC	0.277 	51.0 	3.7		1.025	101.0 	4.8		1.330	5.9	0.4	0.09
AVERA	GE: 0.317	77.0	5.2		1.688	   62.0	4.8		1.558	5.1	0.5	0.15
	VATIONS:12 DANCES	11 	11			11 	11			i 11 i	11	1902
NO OF	SAMPLES	11	11			11	11			11	11	

COMPLIANCE :

CRITERIA :

NOTE :

BOD - YES SS - YES

TP - YES

BOD - 25 mg/l

SS - 25 mg/l TP - 1.0 mg/l

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

\* - EXCEEDS EFFLUENT CRITERIA

ND - NO DATA

ANTICIPATED

REMEDIAL MEASURES

START DATE END DATE

COMPLIANCE

MUNICIPALITY : EAST GWILLIMBURY REGION : CENTRAL
PLANT : HOLLAND LANDING LAGOON DISTRICT : YORK DURHAM

WORKS NUMBER : 120001620 OPERATING AUTHORITY : MUNICIPAL

TREATMENT : CONVENTIONAL LAGOON SEASONAL WATERCOURSE : HOLLAND RIVER

PHOSPHORUS REMOVAL-CONTINUOUS MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE HURON

DESIGN CAPACITY : 1.36 1000 m3 IJC DESIGNATION : INDIRECT

POPULATION SERVED : 2200

		T										
1987	AVG DAY	i	5 DA	Y BOD		i	SUSPEN	DED SOLI	DS	, ·	TOTAL PHO	SPHORUS
	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	l 0.919	   99.0	ND			1 104.0	ND			5.3	ND	
FEB	0.820	427.0	ND			223.0	ND			9.9	ND	
MAR	1.096	112.0	ND			160.0	ND			7.4	ND	
APR	1.352	61.0	ND			62.0	ND			3.6	ND	
MAY	0.887	198.0	12.8			136.0	12.0			6.0	0.5	
JUN	0.983	119.0	ND			112.0	ND			8.9	ND	
JUL	1.196	82.0	ND			61.0	ND			2.9	ND	
AUG	0.883	106.0	ND			212.0	ND			8.4	ND	
SEP	0.798	107.0	ND			96.0	ND			5.4	ND	
OCT	0.861	179.0	ND			104.0	ND			6.7	ND	
NOV	1.093	84.0	10.3			75.0	8.3			6.4	0.3	
DEC	1.456	111.0	ND			265.0	ND			9.2	ND	
AVEDA	CF: 1.030	1 1/0 0			11 70/	1 17/ 0	10.2		0.050	<del> </del>		
AVERA		140.0	11.6		11.306	134.0	10.2		9.858		0.4	0.353
	VATIONS:12 DANCES	12 	2			12 	2			12 	2	
NO OF	SAMPLES	1 12	8			1 12	8			12	8	
		l				ĺ				i		

COMPLIANCE : CRITERIA : NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

BOD - YES BOD - 30 mg/l TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - YES SS - 40 mg/l \* - EXCEEDS EFFLUENT CRITERIA

TP - YES TP - 1.0 mg/l ND - NO DATA

ANTICIPATED

REMEDIAL MEASURES START DATE END DATE COMPLIANCE

MUNICIPALITY : EAST GWILLIMBURY PLANT

: MOUNT ALBERT WPCP WORKS NUMBER: 120001853

TREATMENT : EXTENDED AERATION

PHOSPHORUS REMOVAL - CONTINUOUS

DESIGN CAPACITY :

0.68 1000 m3

EFFLUENT POLISHING

POPULATION SERVED : 1100 REGION

: CENTRAL

DISTRICT : YORK DURHAM

OPERATING AUTHORITY : MUNICIPAL

WATERCOURSE

: MOUNT ALBERT CREEK

MAJOR BASIN

: GREAT LAKES : LAKE HURON

MINOR BASIN IJC DESIGNATION

: INDIRECT

1987 | AVG DAY 5 DAY BOD SUSPENDED SOLIDS TOTAL PHOSPHORUS FLOW INF EFF LOAD INF EFF LOAD INF **EFF** LOAD |(1000 m3/d) |(mg/L) (mg/L) (%REM) (kg/d) |(mg/L) (mg/L) (%REM) (kg/d) (mg/L) (mg/L)(kg/d) | 0.265 JAN 1 246.0 ND | 178.0 ND ND ND 9.5 ND 0.263 | 264.0 | FEB ND ND | 121.0 ND ND 1 9.5 ND ND MAR 0.297 | 113.0 ND ND | 103.0 ND ND 9.8 ND ND APR 0.331 | 136.0 4.237 | 136.0 24.9 8.242 | 8.2 0.3 0.083 0.284 | 243.0 MAY 26.9 7.640 | 132.0 42.2 11.985 | 9.5 0.3 0.080 | 0.298 | 150.0 JUN ND ND 203.0 ND ND 9.5 ND ND 0.336 | 94.0 JUL ND ND 1 172.0 ND 1 4.8 ND ND ND AUG 0.281 | 262.0 ND ND 166.0 ND ND 116.5 ND ND SEP 0.247 | 209.0 ND ND 1 83.0 ND 9.6 ND ND ND OCT 0.229 136.0 ND ND | 100.0 ND ND 1 7.2 ND ND NOV 0.226 | 210.0 2.079 | 128.0 9.2 23.5 5.311 | 8.4 0.3 0.057 | 0.244 | 196.0 DEC 5.6 1.366 | 128.0 14.3 3.489 | 8.4 0.2 0.051 |

3.831 | 138.0

COMPLIANCE :

OBSERVATIONS: 12

**EXCEEDANCES** NO OF SAMPLES

AVERAGE:

CRITERIA :

13.6

19

NOTE :

12

12

BOD - INSUFFICIENT DATA BOD - 25 mg/l

SS - INSUFFICIENT DATA SS - 25 mg/l

TP - INSUFFICIENT DATA TP - 1.0 mg/l

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

7.257 | 9.2

1 12

1 12

TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

- EXCEEDS EFFLUENT CRITERIA

ND - NO DATA

26.2 \*

4

18

ANTICIPATED

REMEDIAL MEASURES

0.275

188.0

12

12

START DATE END DATE

0.2

4

21

**COMPLIANCE** 

0.068 |

NO ACTION

TREATMENT : CONVENTIONAL LAGOON CONTINUOUS WATERCOURSE : WYE RIVER

MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE HURON

DESIGN CAPACITY : 0.75 1000 m3 IJC DESIGNATION : INDIRECT

POPULATION SERVED : 1200

1987	AV	G DAY	1	5 DA	Y BOD		l	SUSPEN	DED SOLI	DS	1	TOTAL PHO	SPHORUS
	FI	LOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(100	0 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN		0.968	186.0	14.6		14.133	   279.0	11.1		10.745	   5.0	3.5	3.388
FEB	ì	0.780	124.0	ND		ND	111.0	ND		ND	111.3	ND	ND
MAR	i	1.700	45.0	20.9		35.530	37.0	13.1		22.270	2.1	3.1	5.270
APR	İ	1.420	34.0	32.0		45.440	28.0	21.5		30.530	1.9	2.2	3.124
MAY	l	0.929	126.0	28.0		26.012	213.0	26.0		24.154	6.9	2.0	1.858
JUN	1	0.929	105.0	21.2		19.695	214.0	17.1		15.886	5.2	2.4	2.230
JUL	1	0.836	77.0	14.6		12.206	377.0	19.0		15.884	6.2	2.1	1.756
AUG	1	0.902	137.0	12.6		11.365	144.0	22.3		20.115	2.3	3.1	2.796
SEP	1	0.879	152.0	13.2		11.603	130.0	8.6		7.559	6.2	3.6	3.164
OCT	1	1.085	134.0	8.7		9.439	146.0	8.1		8.788	13.6	2.7	2.929
NOV	1	1.450	120.0	22.2		32.190	157.0	25.7		37.265	13.0	3.5	5.075
DEC	1	1.613	ND	ND		ND	ND	ND		ND	ND	ND	ND
	1		<u> </u>				<u> </u>				<u> </u>		
AVERA	GE:	1.124	1 113.0	18.8		21.761	   167.0	17.3		19.320	6.7	2.8	3.159
OBSER	VATIO	NS:12	11	10			11	10			i 11 10		
EXCEE	DANCE	S	Ī				1				i		
NO OF	SAMP	LES	11	10			11	10			11	10	
			Ě				Î				1		

COMPLIANCE : CRITERIA : NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

BOD - YES BOD - 30 mg/l TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - YES SS - 40 mg/l \* - EXCEEDS EFFLUENT CRITERIA

TP - YES TP - NONE ND - NO DATA

ANTICIPATED

REMEDIAL MEASURES START DATE END DATE COMPLIANCE

MUNICIPALITY : ESSA REGION : CENTRAL
PLANT : ANGUS WPCP DISTRICT : BARRIE

WORKS NUMBER : 110003282 OPERATING AUTHORITY : MINISTRY

TREATMENT : EXTENDED AERATION WATERCOURSE : NOTTAWASAGA RIVER

PHOSPHORUS REMOVAL-CONTINUOUS MAJOR BASIN : GREAT LAKES MINOR BASIN : LAKE HURON

DESIGN CAPACITY : 3.39 1000 m3 IJC DESIGNATION : INDIRECT

POPULATION SERVED: 2560

1987	AVG DAY	1	5 DA	Y BOD		l	SUSPEN	DED SOLI	DS	TOTAL PHOSPHORUS		
	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	   0.782	1 184.0	2.7		2.111	   142.0	7.8		6.100	  10.0	0.3	0.21
FEB	0.645	143.0	8.7		5.611	105.0	7.6		4.902	6.6	0.3	0.19
MAR	0.947	124.0	3.5		3.314	96.0	10.4		9.849	6.0	0.3	0.30
APR	1.191	128.0	3.3		3.930	176.0	4.6		5.479	7.9	0.1	0.10
MAY	0.724	195.0	7.0		5.068	191.0	10.3		7.457	7.3	0.3	0.18
JUN	0.759	130.0	2.3		1.746	146.0	2.1		1.594	6.4	0.2	0.15
JUL	0.792	102.0	2.9		2.297	127.0	3.1		2.455	6.5	0.1	0.10
AUG	0.681	116.0	2.1		1.430	89.0	3.4		2.315	7.5	0.1	0.07
SEP	0.669	142.0	5.4		3.613	127.0	4.5		3.011	9.1	0.2	0.12
OCT	0.678	151.0	2.4		1.627	83.0	3.9		2.644	10.0	0.2	0.14
VOV	0.827	294.0	3.3		2.729	101.0	5.8		4.797	7.0	0.3	0.2
DEC	0.959 	246.0 	2.9		2.781	508.0 	8.1		7.768	14.3	0.2	0.2
AVERA	GE: 0.805	163.0	3.9		3.021	1 158.0	6.0		4.864	1 8.2	0.2	0.17
	VATIONS:12 DANCES	j 12	12			12	12			12	12	<b>5.1</b> 1
10 OF	SAMPLES	20	21			20	21			21	21	

COMPLIANCE : CRITERIA : NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
BOD - YES BOD - 25 mg/l TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - YES SS - 25 mg/L \* - EXCEEDS EFFLUENT CRITERIA

TP - YES TP - 1.0 mg/L ND - NO DATA

REMEDIAL MEASURES ANTICIPATED

START DATE END DATE COMPLIANCE

MUNICIPALITY : FENELON FALLS REGION : CENTRAL

PLANT : FENELON FALLS WPCP(SUMMER POPSERVE 3136) DISTRICT : PETERBOROUGH WORKS NUMBER : 110001612 OPERATING AUTHORITY : MINISTRY

TREATMENT : OXIDATION DITCH WATERCOURSE : FENELON RIVER

PHOSPHORUS REMOVAL - CONTINUOUS MAJOR BASIN MINOR BASIN : GREAT LAKES : LAKE ONTARIO

DESIGN CAPACITY : 1.00 1000 m3 IJC DESIGNATION : INDIRECT

POPULATION SERVED : 1666

1987	AVG DAY		F D4	V 000					Ţ Ţ			
1907	• Section of the section			Y BOD		!		DED SOLI	TOTAL PHOSPHORUS			
	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	0.703	229.0	16.0		11.248	1 184.0	16.3		11.459	   7.0	0.8	0.569
FEB	0.714	104.0	4.3		3.070	98.0	5.0		3.570		0.3	0.207
MAR	1.226	89.0	30.0		36.780	89.0	27.0		33.102	•	1.3 *	1.532
APR	1.034	35.0	6.8		7.031	37.0	24.8		25.643	0.5	0.7	0.672
MAY	0.747	111.0	9.3		6.947	25.0	21.8		16.285		0.2	0.172
JUN	0.687	119.0	8.1		5.565	106.0	6.0		4.122	•	0.4	0.282
JUL	0.772	121.0	7.3		5.636	166.0	12.0		9.264		0.2	0.170
AUG	0.785	93.0	8.9		6.987	62.0	5.4		4.239		0.2	0.165
SEP	0.802	93.0	2.5		2.005	101.0	5.6		4.491	6.3	0.4	0.329
OCT	0.748	ND	ND		ND	ND	ND		ND	ND	0.5	0.337
NOV	0.904	73.0	7.6		6.870	74.0	10.6		9.582	5.8	1.0	0.868
DEC	1.028	87.0	5.3		5.448	84.0	7.5		7.710	5.9	0.4	0.442
	l	1				<u> </u>				l		
AVERA	GE: 0.846	1 105.0	9.6		8.872	l   93.0	12.9		11.770	15.9	0.5	0.479
OBSER	VATIONS: 12	1 11	11			11	11			11 12		0.47
EXCEE	DANCES	1				i				1 1		
NO OF	NO OF SAMPLES		12			12	12			1 13	16	
		ì								1		

COMPLIANCE : CRITERIA : NOTE :

> BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS BOD - YES

BOD - 25 mg/l TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - YES SS - 25 mg/l \* - EXCEEDS EFFLUENT CRITERIA

TP - NO TP - 1.0 mg/l ND - NO DATA

ANTICIPATED REMEDIAL MEASURES START DATE END DATE COMPLIANCE

MUNICIPALITY : GEORGINA PLANT : KESWICK WPCP

WORKS NUMBER: 120001755

TREATMENT : EXTENDED AERATION

PHOSPHORUS REMOVAL - CONTINUOUS

REGION : CENTRAL DISTRICT : YORK DURHAM OPERATING AUTHORITY : MUNICIPAL

WATERCOURSE : COOK BAY(L.SIMCOE)

: GREAT LAKES MAJOR BASIN MINOR BASIN : LAKE HURON

DESIGN CAPACITY : 12.06 1000 m3

IJC DESIGNATION : INDIRECT

POPULATION SERVED : 8000

1987	AVG DAY	i I	5 DA	Y BOD		! 	SUSPEN	DED SOLI	DS		TOTAL PHO	SPHORUS
1	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
1	(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
l	I	I				I				I		
JAN	2.214	67.0	3.1		6.863	85.0	0.9		1.993	3.7	ND	ND
FEB	2.095	78.0	3.5		7.333	52.0	1.3		2.724	3.8	0.2	0.356
MAR	2.679	81.0	2.7		7.233	72.0	0.2		0.536	4.2	0.2	0.563
APR	2.724	93.0	1.0		2.724	68.0	0.6		1.634	3.5	0.2	0.545
MAY	2.296	92.0	1.5		3.444	93.0	2.6		5.970	16.8	0.2	0.482
JUN	2.425	86.0	1.3		3.152	157.0	0.5		1.212	1 4.2	0.2	0.509
JUL	2.530	99.0	1.6		4.048	122.0	0.9		2.277	9	0.3	0.658
AUG	2.385	62.0	2.0		4.770	72.0	0.5		1.192	4.4	0.3	0.620
SEP	2.422	69.0	1.2		2.906	98.0	0.9		2.180	5.6	0.2	0.581
OCT	2.712	310.0	1.3		3.526	84.0	0.1		0.271	6.7	0.2	0.515
NOV	3.160	92.0	2.0		6.320	130.0	2.3		7.268	4.8	0.1	0.284
DEC	3.394	71.0	2.3		7.806	87.0	0.8		2.715	4.1	0.3	0.849
ļ		1			y S	l	400-241			j		
   AVERA	GE: 2.586	   100.0	2.0		5.010	   93.0	1.0		2.498	1 5.5	0.2	0.542
• 1000000000000000000000000000000000000	VATIONS:12	1 12	12		2.0.0	1 12	12		2.470	1 12	11	0.542
E SECTION SERVICE	DANCES	i "				' <u>'</u>	,,,			'2	1.1	
NO OF	SAMPLES	23	24			23	23			22	20	
1		1				l				I		

COMPLIANCE : CRITERIA : NOTE :

> BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS BOD - YES

BOD - 25 mg/l TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - YES SS - 25 mg/l \* - EXCEEDS EFFLUENT CRITERIA

TP - YES TP - 1.0 mg/l ND - NO DATA

ANTICIPATED

REMEDIAL MEASURES START DATE END DATE COMPLIANCE

MUNICIPALITY : GEORGINA REGION : CENTRAL

PLANT : SUTTON WPCP DISTRICT : YORK DURHAM WORKS NUMBER: 110001168 OPERATING AUTHORITY : MUNICIPAL TREATMENT : EXTENDED AERATION WATERCOURSE : BLACK RIVER

PHOSPHORUS REMOVAL - CONTINUOUS : GREAT LAKES

MAJOR BASIN MINOR BASIN : LAKE HURON

DESIGN CAPACITY : 2.04 1000 m3 IJC DESIGNATION : INDIRECT

POPULATION SERVED : 2650

1987	AVG DAY	1	5 DA	Y BOD		1	SUSPEN	DED SOLI	TOTAL PHOSPHORUS			
	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d
JAN	1.072	49.0	6.8		7.290	   47.0	1.2		1.286	   3.6	0.2	0.16
FEB	1.010	150.0	4.3		4.343	141.0	1.3		1.313	6.4	0.1	0.13
MAR	1.406	173.0	6.1		8.577	106.0	4.3		6.046	5.2	0.2	0.29
APR	1.457	110.0	8.9		12.967	60.0	7.3		10.636	4.5	0.2	0.27
YAY	1.246	123.0	7.3		9.096	129.0	6.2		7.725	1 4.9	1.2 *	1.53
JUN	1.223	ND	ND		ND	ND	ND		ND	ND	ND	ND
IUL	1.475	122.0	3.2		4.720	111.0	4.3		6.343	5.2	0.7	1.03
NUG	1.246	126.0	7.1		8.847	75.0	11.7		14.578	5.8	0.6	0.76
EP	1.092	104.0	1.4		1.529	111.0	2.4		2.621	5.9	0.2	0.19
CT	1.102	110.0	1.5		1.653	72.0	0.1		0.110	4.7	0.3	0.33
VOV	1.421	ND	ND		ND	ND ND	ND		ND	ND	ND	ND
DEC	1.478	72.0 	2.9		4.286	69.0	0.9		1.330	4.1 	0.1	0.13
VERAG	E: 1.269	114.0	5.0		6.331	92.0	4.0		5.199	1 5.0	0.4	0.48
BSERV	ATIONS: 12	10	10			10	10			10	10	6535 NA
XCEED	ANCES	1				ĺ				İ	1	
O OF	SAMPLES	13	13			13	13			i 13	13	

COMPLIANCE : CRITERIA : NOTE :

> BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS BOD - YES BOD - 25 mg/l TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - YES SS - 25 mg/l \* - EXCEEDS EFFLUENT CRITERIA

TP - NO TP - 1.0 mg/l ND - NO DATA

ANTICIPATED REMEDIAL MEASURES START DATE END DATE COMPLIANCE

MUNICIPALITY : GRAVENHURST : GRAVENHURST WPCP (DUAL OPERATION)

WORKS NUMBER: 120000809

TREATMENT : CONVENTIONAL ACTIVATED SLUDGE

EXTENDED AERATION

PHOSPHORUS REMOVAL - CONTINUOUS

DESIGN CAPACITY : 3.04 1000 m3

POPULATION SERVED: 4782

REGION : CENTRAL : MUSKOKA DISTRICT OPERATING AUTHORITY : MUNICIPAL : MUSKOKA LAKE WATERCOURSE MAJOR BASIN : GREAT LAKES MINOR BASIN : LAKE HURON

IJC DESIGNATION : INDIRECT

1		1				T				T		
1987	AVG DAY	i	5 DA	Y BOD		i	SUSPEN	DED SOLI	DS	TOTAL PHOSPHORUS		
1	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
<u> </u>	(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
   JAN	2.259	1 128.0	5.3		11.973	   125.0	10.8		24.397	   7.3	0.4	0.904
FEB	2.097	129.0	9.5		19.921	No management	14.6		30.616	5.5	0.7	1.363
MAR	3.098	ND	11.4		35.317	ND	15.9		49.258	ND	0.9	2.788
APR	3.385	153.0	12.7		42.989	109.0	11.9		40.282	6.8	0.9	2.945
MAY	2.704	105.0	3.6		9.734	67.0	6.1		16.494	6.1	0.9	2.298
JUN	2.688	172.0	5.2		13.978	223.0	3.8		10.214	7.6	0.3	0.806
JUL	2.586	62.0	7.7		19.912	95.0	5.7		14.740	5.2	0.3	0.776
AUG	2.040	105.0	4.5		9.180	114.0	5.3		10.812	7.5	0.2	0.428
SEP	1.999	121.0	1.8		3.598	143.0	ND		ND	6.3	0.4	0.800
OCT	1.963	163.0	2.7		5.300	91.0	9.6		18.845	9.4	0.5	0.923
NOV	1.982	215.0	4.7		9.315	102.0	5.5		10.901	6.4	0.3	0.535
DEC	1.815	91.0	9.6		17.424	61.0	2.0		3.630	4.2	0.3	0.490
	1	1								!		
AVERA	GE: 2.385	131.0	6.6		16.553	1 110.0	8.3		20.926	l   6.6	0.5	1.255
	VATIONS:12	11	12			11	11			11	12	
	DANCES SAMPLES	   12	13			   12	12			   12	256	
1		1				I				1		

COMPLIANCE : CRITERIA : NOTE :

> BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS BOD - YES

BOD - 25 mg/l TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - YES SS - 25 mg/l \* - EXCEEDS EFFLUENT CRITERIA

TP - YES TP - 1.0 mg/l ND - NO DATA

ANTICIPATED REMEDIAL MEASURES START DATE END DATE COMPLIANCE NEW EQUIPMENT IS BEING INSTALLED 86/12/31 91/01/01 91/01/01 ENVIRONMENTAL ASSESSMENT PROCESS 1986 1991 1991 CHANGE OF PHOSPHORUS REMOVAL CHEMICAL 1986 1991 1991

MUNICIPALITY : HALTON HILLS

PLANT : ACTON WPCP + LAGOON

WORKS NUMBER: 120001023

TREATMENT : CONVENTIONAL ACTIVATED SLUDGE

PHOSPHORUS REMOVAL - CONTINUOUS

EFFLUENT POLISHING

DESIGN CAPACITY : 4.54 1000 m3

REGION

: CENTRAL

DISTRICT

: HALTON PEEL

OPERATING AUTHORITY : MUNICIPAL

WATERCOURSE

: BLACK CREEK

MAJOR BASIN

: GREAT LAKES MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ONTARIO

IJC DESIGNATION : INDIRECT

POPULATION SERVED: 7478

1987	AVG DAY	1	5 DA	Y BOD		1	SUSPEN	DED SOLI	TOTAL PHOSPHORUS			
	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	l   4.186	   128.0	4.1		17.163	   142.0	6.8		28.465	110.6	0.7	2.721
FEB	4.368	165.0	3.7		16.162		5.3		23.150		1.8 *	7.862
MAR	3.700	278.0	2.5			318.0	5.6		20.720	· • · · · · · · · · · · · · · · · · · ·	1.0	3.663
APR	4.400	113.0	2.2			146.0	7.6			4.8	0.5	1.980
MAY	3.700	198.0	1.1		4.070	200.0	4.4		16.280	9.2	0.1	0.481
JUN	3.500	138.0	2.1		7.350	197.0	6.4		22.400	8.3	0.3	0.945
JUL	3.000	159.0	0.7		2.100	123.0	2.7		8.100	8.3	0.6	1.800
AUG	3.200	87.0	1.4		4.480	157.0	1.4		4.480	5.8	0.3	0.896
SEP	3.400	133.0	0.9		3.060	281.0	1.4		4.760	6.9	0.3	1.054
OCT	2.600	159.0	1.4		3.640	198.0	4.0		10.400	5.7	0.5	1.300
NOV	2.700	232.0	2.0		5.400	177.0	3.8		10.260	5.6	0.2	0.459
DEC	2.900 	ND	1.0		2.900	ND 	3.6		10.440	ND	0.6	1.653
AVERA	GE: 3.471	163.0	1.9		7.105	     192.0	4.4		16.075	1 7.8	0.6	2.068
OBSER	VATIONS:12	j 11	12			1 11	12			1 11	12	2.00
EXCEE	DANCES	i				i	-			1	1	
NO OF	SAMPLES	30	30			31	31			31	30	

COMPLIANCE :

CRITERIA :

NOTE :

BOD - 25 mg/l SS - 25 mg/l TP - 1.0 mg/l BOD - YES SS - YES

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

\* - EXCEEDS EFFLUENT CRITERIA

ND - NO DATA

ANTICIPATED

REMEDIAL MEASURES

TP - NO

START DATE END DATE

COMPLIANCE

MUNICIPALITY : HALTON HILLS PLANT : GEORGETOWN WPCP WORKS NUMBER : 110000294

TREATMENT : CONVENTIONAL ACTIVATED SLUDGE PHOSPHORUS REMOVAL - CONTINUOUS

EFFLUENT POLISHING

DESIGN CAPACITY : 13.63 1000 m3

POPULATION SERVED : 20100

REGION : CENTRAL DISTRICT : HALTON PEEL OPERATING AUTHORITY : MUNICIPAL WATERCOURSE : SILVER CREEK MAJOR BASIN : GREAT LAKES MINOR BASIN

IJC DESIGNATION : INDIRECT

: LAKE ONTARIO

1987	AVG C	PAY	l	5 DA	Y BOD		l	SUSPEN	DED SOLI	DS	1	TOTAL PHO	SPHORUS
	FLOW	ı	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m	n3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	l I 8.	.000	   92.0	8.1		64.800	   100.0	3.8		30.400	1 5.3	0.7	5.600
FEB	9.	.000	115.0	8.3		74.700	105.0	4.1		36.900	M 8 555	0.7	6.300
MAR	j 11.	400	192.0	5.4		61.560	103.0	3.0		34.200	5.4	0.6	6.840
APR	12.	.800	138.0	5.1		65.280	179.0	3.7		47.360	9.0	0.6	7.680
MAY	1 9.	.400	152.0	3.6		33.840	181.0	2.9		27.260	12.3	0.7	6.580
JUN	9.	.900	268.0	3.1		30.690	426.0	3.0		29.700	9.8	0.8	7.920
JUL	9	.700	193.0	2.0		19.400	224.0	3.3		32.010	9.4	0.7	6.790
AUG	9	.500	190.0	3.0		28.500	227.0	3.3		31.350	12.3	0.6	5.700
SEP	9	.600	144.0	0.5		4.800	307.0	2.8		26.880	10.1	0.3	2.880
OCT	9	.400	146.0	2.0		18.800	232.0	1.2		11.280	10.0	0.4	3.760
NOV	10	.959	132.0	5.5		60.274	171.0	2.1		23.014	9.7	0.6	6.575
DEC	12	.440	193.0	3.3		41.052	179.0	1.7		21.148	7.8	0.2	2.488
	1	V 100	<del>i -</del>				1				1		
AVERA	GE: 10	. 175	163.0	4.2		41.975	203.0	2.9		29.292	9.0	0.6	5.759
	VATIONS	:12	12	12			12	12			12 12		
	EXCEEDANCES NO OF SAMPLES		137	134			1 141	140			140	137	
			Ĩ				i				1		

COMPLIANCE : CRITERIA : NOTE :

> BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS BOD - 25 mg/l BOD - YES TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

ss - 25 mg/l SS - YES \* - EXCEEDS EFFLUENT CRITERIA

TP - YES ND - NO DATA TP - 1.0 mg/l

> ANTICIPATED START DATE END DATE COMPLIANCE

NONE

REMEDIAL MEASURES

DISTRICT : CENTRAL MUNICIPALITY : HASTINGS : PETERBOROUGH PLANT : HASTINGS WPCP WORKS NUMBER: 110001827 OPERATING AUTHORITY : MINISTRY : TRENT RIVER WATERCOURSE TREATMENT : OXIDATION DITCH

PHOSPHORUS REMOVAL - CONTINUOUS MAJOR BASIN : GREAT LAKES MINOR BASIN : LAKE ONTARIO

IJC DESIGNATION : INDIRECT DESIGN CAPACITY : 1.05 1000 m3

POPULATION SERVED: 945

1987	AVG DAY	1		5 DA	Y BOD			SUSPEN	DED SOLI	DS	1 1	OTAL PHO	SPHORUS
	FLOW	11	NF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/d)	(mg	g/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	l   0.751	14	44.0	12.3		9.237	   153.0	37.8		28.388	   5.3	1.3 *	0.954
FEB	0.751	i a	23.0	6.7		5.032	10.0	7.9		5.933	1.2	0.1	0.105
MAR	1.071	i.	17.0	11.0		11.781	24.0	10.4		11.138	0.8	0.8	0.846
APR	1.158	1	11.0	3.0		3.474	13.0	6.8		7.874	1.3	0.3	0.324
MAY	0.655	1 8	27.0	4.6		3.013	18.0	5.6		3.668	2.2	0.3	0.183
JUN	0.433	1 8	20.0	1.0		0.433	26.0	4.0		1.732	1.4	1.7 *	0.73
JUL	0.349	1 3	31.0	6.1		2.129	27.0	4.1		1.431	1.6	0.2	0.07
AUG	0.357	ĺ	ND	ND		ND	ND	ND		ND	ND	0.3	0.12
SEP	0.711	1 3	23.0	1.0		0.711	85.0	7.5		5.332	2.6	0.3	0.19
OCT	0.740	1 3	28.0	1.2		0.888	19.0	11.2		8.288	2.5	1.0	0.72
NOV	0.825	1 :	53.0	3.8		3.135	165.0	8.1		6.682	3.8	0.2	0.14
DEC	0.938	1:	38.0	1.5		1.407	41.0 	0.5		0.469	5.0 	0.0	0.02
AVERA	GE: 0.728	Ť	38.0	4.7		3.749	53.0	9.4		7.358	1 2.5	0.5	0.36
	VATIONS:12	1	11	11			11	11			1 11	12	
	DANCES	i	T. 117.1	17.5			i	Do.L.			i	2	
	SAMPLES	i	11	11			1 11	11			1 12	31	

CRITERIA : NOTE : COMPLIANCE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

BOD - YES BOD - 25 mg/l TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - 25 mg/l \* - EXCEEDS EFFLUENT CRITERIA SS - YES

TP - 1.0 mg/l ND - NO DATA TP - NO

ANTICIPATED

START DATE END DATE REMEDIAL MEASURES COMPLIANCE

WORKS NUMBER: 110001765 OPERATING AUTHORITY: MINISTRY

TREATMENT : CONVENTIONAL LAGOON SEASONAL WATERCOURSE : PLATO CREEK

PHOSPHORUS REMOVAL - BATCH MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ONTARIO

DESIGN CAPACITY: 0.58 1000 m3 IJC DESIGNATION: INDIRECT

POPULATION SERVED: 1356

1987	AVG DAY	1	5 DA	Y BOD		1	SUSPEN	DED SOLI	DS	1 1	TOTAL PHO	SPHORUS
	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	0.734	1 105.0	ND			1   168.0	ND			   6.0	ND	
FEB	0.704	350.0	ND			132.0	ND			7.8	ND	
MAR	0.924	ND	ND			ND ND	ND			ND	ND	
APR	1.187	56.0	5.5			67.0	4.5			2.7	0.3	
MAY	0.894	101.0	ND			96.0	ND			4.5	ND	
JUN	0.799	126.0	ND			151.0	ND			4.8	ND	
JUL	0.737	61.0	ND			60.0	ND			4.1	ND	
AUG	0.732	60.0	ND			81.0	ND			4.1	ND	
SEP	0.741	ND	ND			ND	ND			ND	ND	
OCT	0.691	ND	ND			ND ND	ND			ND	ND	
VON	0.743	81.0	6.2			86.0	1.7			4.9	0.2	
DEC	0.940 	ND	ND			ND	ND			ND	ND	
AVERA	GE: 0.819	1118.0	5.9		5.568	105.0	3.1		3.302	1 4.9	0.3	0.26
	VATIONS:12 DANCES	8 	2			8 	2			8 	2	
NO OF	SAMPLES	15	17			1 15	16			1 15	15	

COMPLIANCE : CRITERIA : NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

BOD - YES BOD - 30 mg/L TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - YES SS - 40 mg/l \* - EXCEEDS EFFLUENT CRITERIA

TP - YES TP - 1.0 mg/L ND - NO DATA

ANTICIPATED

REMEDIAL MEASURES START DATE END DATE COMPLIANCE

REGION DISTRICT MUNICIPALITY : HUNTSVILLE : CENTRAL PLANT : HUNTSVILLE WPCP : MUSKOKA WORKS NUMBER: 110000347 OPERATING AUTHORITY : MUNICIPAL WATERCOURSE TREATMENT : CONVENTIONAL ACTIVATED SLUDGE : MUSKOKA RIVER

PHOSPHORUS REMOVAL-CONTINUOUS MAJOR BASIN : GREAT LAKES MAJOR BASIN : GREAT LAKE HURON

IJC DESIGNATION : INDIRECT DESIGN CAPACITY : 4.54 1000 m3

POPULATION SERVED: 3016

PUPUL	TION	SERVED	: 301										
1987	AVG	DAY	i	5 DA	Y BOD		l	SUSPEN	DED SOLI	DS	!   1	TOTAL PHO	SPHORUS
	FL	.OW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000	m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	! !	2.820	1 105.0	5.4		15.228	1 105.0	6.8		19.176	8.4	0.3	0.846
FEB	1	2.658	194.0	6.2		16.480	116.0	8.4		22.327	6.1	0.2	0.532
MAR	1	3.875	107.0	9.1		35.262	77.0	8.5		32.938	4.7	0.4	1.550
APR	1	4.118	ND	ND		ND	ND ND	ND		ND	ND	ND	ND
MAY		3.062	ND	ND		ND	ND	ND		ND	ND	ND	ND
JUN	1	2.890	138.0	8.8		25.432	123.0	3.1		8.959	6.2	0.4	1.156
JUL	1	3.036	175.0	2.8		8.501	117.0	5.4		16.394	6.0	0.8	2.429
AUG	ł	3.360	121.0	2.7		9.072	81.0	5.2		17.472	7.7	0.5	1.680
SEP	1	2.669	115.0	1.1		2.936	82.0	3.5		9.341	9.8	0.5	1.335
ОСТ	1	2.968	159.0	8.2		24.338	78.0	9.9		29.383	4.4	0.7	2.07
NOV	1	3.201	114.0	3.9		12.484	136.0	6.5		20.806	4.9	0.3	0.960
DEC	1	4.115	74.0	3.9		16.049	80.0	6.4		26.336	3.3	0.4	1.646
	<u> </u>		<u> </u>				1						
AVERA	GE:	3.231	1 130.0	5.2		16.578	1 100.0	6.4		20.313	   6.2	0.4	1.42
OBSER	VATION	IS:12	1 10	10			10	10			10	10	
EXCEE	DANCES	6	1				1				Ì		
NO OF	SAMPL	ES	10	10			10	10			10	10	
			1				İ				ì		

COMPLIANCE : CRITERIA : NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

BOD - 25 mg/l SS - 25 mg/l BOD - YES TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - YES \* - EXCEEDS EFFLUENT CRITERIA

TP - YES TP - 1.0 mg/l ND - NO DATA

ANTICIPATED

REMEDIAL MEASURES START DATE END DATE COMPLIANCE

MUNICIPALITY : INNISFIL

REGION

: CENTRAL

PLANT : INNISFIL(ALCONA) WPCP IN OP 1987

DISTRICT

: BARRIE

WORKS NUMBER : 110002586

OPERATING AUTHORITY : MINISTRY : LAKE SIMCOE

TREATMENT : EXTENDED AERATION

WATERCOURSE

PHOSPHORUS REMOVAL - CONTINUOUS

MAJOR BASIN

: GREAT LAKES

DESIGN CAPACITY : 7.27 1000 m3

MINOR BASIN

: LAKE HURON

EFFLUENT POLISHING

IJC DESIGNATION :

POPULATION SERVED: 2600

	ATTON SERVED	: 200	× 			г						
1987	AVG DAY		5 DA	Y BOD			SUSPEN	DED SOLI	DS	,	TOTAL PHO	SPHORUS
	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	i ND	l ND	ND		ND	i I nd	ND		ND	l ND	ND	ND
FEB	ND	ND	ND		ND	ND	ND		ND	ND	ND	ND
MAR	ND	ND ND	ND		ND	ND	ND		ND	ND	ND	ND
APR	ND	ND	ND		ND	ND	ND		ND	ND	ND	ND
MAY	j ND	ND	ND		ND	ND	ND		ND	ND	ND	ND
JUN	ND	ND	ND		ND	ND	ND		ND	ND	ND	ND
JUL	ND	ND ND	ND		ND	ND	ND		ND	ND	ND	ND
AUG	2.159	119.0	1.1		2.375	70.0	0.1		0.216	6.5	0.0	0.022
SEP	0.772	79.0	1.6		1.235	117.0	0.1		0.077	5.2	0.1	0.062
OCT	0.715	103.0	2.3		1.644	96.0	0.8		0.572	6.0	0.6	0.415
NOV	0.757	84.0	1.3		0.984	97.0	0.7		0.530	3.8	0.2	0.167
DEC	0.787 	71.0 	1.7		1.338	77.0 	0.7		0.551	4.5 	0.1	0.094
AVERA	GE: 1.038	   91.0	1.6		1.515	91.0	0.5		0.389	1 5.2	0.2	0.152
OBSER	VATIONS: 5	5	5			5	5		0.307	5	5	0.15
	DANCES SAMPLES	   8	8			   24	8			   8	8	

COMPLIANCE :

CRITERIA :

NOTE :

BOD - INSUFFICIENT DATA BOD - 25 mg/l SS - INSUFFICIENT DATA SS - 25 mg/l

TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

\* - EXCEEDS EFFLUENT CRITERIA

TP - INSUFFICIENT DATA TP - 1.0 mg/l

ND - NO DATA

ANTICIPATED

REMEDIAL MEASURES

START DATE END DATE

COMPLIANCE

UPGRADING COMPLETED

MUNICIPALITY: LAKEFIELD REGION : CENTRAL

PLANT : LAKEFIELD LAGOON DISTRICT : PETERBOROUGH
WORKS NUMBER : 110001462 OPERATING AUTHORITY : MUNICIPAL

TREATMENT : CONVENTIONAL LAGOON SEASONAL WATERCOURSE : OTONABEE RIVER
PHOSPHORUS REMOVAL-CONTINUOUS MAJOR RASIN : CREAT LAKES

PHOSPHORUS REMOVAL-CONTINUOUS MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ONTARIO

DESIGN CAPACITY : 1.59 1000 m3 IJC DESIGNATION : INDIRECT

POPULATION SERVED : 2324

JUN	1.161	38.0	ND		126.0   69.0	ND ND		10.7   2.6	ND ND	
JUL   AUG	1.158 1.011	38.0   49.0	ND ND		66.0   194.0	ND ND		2.9	ND ND	
SEP   OCT	1.037 1.052	99.0   160.0	ND 19.2		134.0   265.0	ND 17.5		9.2	ND	
NOV į	ND	ND	ND		265.0   ND	ND		9.1   ND	0.6 ND	
DEC	1.794	71.0 	ND		151.0 	ND		5.4	ND	
	The service	l l		 	I I			<u> </u>		
AVERAGE	E: 1.365	78.0	21.7	38.364	   118.0	28.1	53.158	5.0	0.8	1.4

COMPLIANCE : CRITERIA : NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

BOD - YES BOD - 30 mg/l TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - YES SS - 40 mg/L \* - EXCEEDS EFFLUENT CRITERIA

TP - YES TP - 1.0 mg/l ND - NO DATA

REMEDIAL MEASURES START DATE END DATE COMPLIANCE

MUNICIPALITY : LINDSAY REGION : CENTRAL

DISTRICT : PETERBOROUGH PLANT : LINDSAY LAGOON

WORKS NUMBER : 110000383 OPERATING AUTHORITY : MUNICIPAL

TREATMENT : CONVENTIONAL LAGOON CONTINUOUS WATERCOURSE : SCUGOG RIVER

AERATED CELL MAJOR BASIN MINOR BASIN : LAKE ONTARIO PHOSPHORUS REMOVAL - CONTINUOUS

: GREAT LAKES

IJC DESIGNATION : INDIRECT DESIGN CAPACITY : 17.18 1000 m3

POPULATION SERVED : 14636

PUPUL	1110	SEKVED	: 1403										
1987	   A\	/G DAY	l	5 DA	Y BOD		1	SUSPEN	DED SOLI	DS	1	OTAL PHO	SPHORUS
		FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(100	00 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	! 	11.319	1 199.0	12.0		135.828	   139.0	10.8		122.245	5.8	0.9	9.848
FEB	I	10.819	138.0	19.0		205.561	103.0	17.0		183.923	5.1	1.5 *	16.445
MAR	1	21.594	45.0	21.8		470.749	51.0	15.0		323.910	3.7	0.9	19.651
APR	1	20.293	83.0	9.0		182.637	60.0	10.6		215.106	5.8	0.3	6.088
MAY	1	12.774	107.0	6.8		86.863	103.0	7.6		97.082	5.2	0.8	9.580
JUN	1	12.679	99.0	9.1		115.379	113.0	11.5		145.809	5.3	0.7	8.368
JUL	1	12.451	88.0	14.9		185.520	93.0	23.2		288.863	3.8	0.4	5.478
AUG	1	11.761	98.0	8.5		99.968	97.0	18.2		214.050	8.3	0.7	7.997
SEP	1	11.724	116.0	4.4		51.586	77.0	4.1		48.068	9.9	0.8	9.731
OCT	1	11.647	101.0	2.7		31.447	65.0	3.3		38.435	12.1	0.6	7.221
NOV	1	13.715	88.0	8.2		112.463	109.0	0.9		12.344	8.3	0.6	8.366
DEC	l	19.389	55.0 	10.0		193.890	65.0 	9.6		186.134	3.9 	0.7	13.378
AVERA	GE:	14.180	1 101.0	10.5		155.991	90.0	11.0		156.331	6.4	0.7	10.179
OBSER EXCEE		ONS:12 ES	j 12 I	12			12 	12			12 	12 1	
NO OF	SAM	PLES	1 12	12			12	12			12	12	

COMPLIANCE : CRITERIA : NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

BOD - YES BOD - 30 mg/l SS - 40 mg/l TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - YES \* - EXCEEDS EFFLUENT CRITERIA

TP - NO TP - 1.0 mg/l ND - NO DATA

ANTICIPATED REMEDIAL MEASURES START DATE END DATE COMPLIANCE

ENGINEERING STUDY PHASE 88/06/30

MUNICIPALITY : METRO TORONTO

: CENTRAL REGION

PLANT

: HIGHLAND CREEK WPCP (SCARBOROUGH)

DISTRICT : METRO TORONTO EAST

WORKS NUMBER: 120000373

OPERATING AUTHORITY : MUNICIPAL

TREATMENT

: CONVENTIONAL ACTIVATED SLUDGE

WATERCOURSE MAJOR BASIN

: LAKE ONTARIO : GREAT LAKES

PHOSPHORUS REMOVAL - CONTINUOUS

MINOR BASIN

: LAKE ONTARIO

DESIGN CAPACITY : 218.20 1000 m3

POPULATION SERVED: 290000

IJC DESIGNATION : DIRECT

		1	-			Τ				T		
1987	AVG DAY	1	5 DA	Y BOD			SUSPEN	IDED SOLI	DS		TOTAL PHO	SPHORUS
	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	162.629	1 146.0	10.1		1642.553	1 177.0	22.5		3659.152	4.6	0.8	125.224
FEB	157.071	157.0	9.9		1555.003	197.0	16.1		2528.843	4.9	0.8	124.086
MAR	165.270	149.0	11.6		1917.132	185.0	15.5		2561.685	4.7	0.5	89.246
APR	180.223	158.0	12.4		2234.765	201.0	18.4		3316.103	4.3	0.8	135.167
MAY	178.403	170.0	7.6		1355.863	189.0	15.1		2693.885	4.7	1.0	181.971
JUN	196.200	186.0	9.0		1765.800	215.0	16.0		3139.200	5.0	0.8	149.112
JUL	208.500	138.0	6.5		1355.250	208.0	16.6		3461.100	4.5	0.8	168.885
AUG	181.300	154.0	6.3		1142.190	202.0	25.1		4550.630	4.4	0.8	143.227
SEP	161.100	148.0	7.7		1240.470	209.0	18.6		2996.460	4.8	0.6	103.104
OCT	149.900	157.0	9.1		1364.090	196.0	17.4		2608.260	4.6	0.9	136.409
NOV	151.200	178.0	14.4		2177.280	212.0	23.2		3507.840	4.8	0.9	137.592
DEC	148.600	161.0	12.8		1902.080	219.0	23.4		3477.240	4.7	0.8	124.824
	1	l				!			V	I		
AVERA	GE: 170.033	1 158.0	9.8		1637.706	201.0	19.0		3208.367	4.7	0.8	134.904
OBSER	EVATIONS: 12	1 12	12			12	12			12	12	25,153,50
LACLE		1				1				1		

COMPLIANCE :

NO OF SAMPLES

CRITERIA :

230

230

NOTE :

364

BOD - YES

BOD - 25 mg/l

TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

348

SS - YES

SS - 25 mg/l

\* - EXCEEDS EFFLUENT CRITERIA

TP - YES

TP - 1.0 mg/l

ND - NO DATA

ANTICIPATED

REMEDIAL MEASURES

START DATE END DATE

1364

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

345

COMPLIANCE

MUNICIPALITY : METRO TORONTO

: HUMBER WPCP (ETOBICOKE)

WORKS NUMBER: 120000382

TREATMENT

PLANT

: CONVENTIONAL ACTIVATED SLUDGE

PHOSPHORUS REMOVAL - CONTINUOUS

REGION

: CENTRAL

DISTRICT

: METRO TORONTO WEST

OPERATING AUTHORITY : MUNICIPAL

WATERCOURSE

: LAKE ONTARIO

MAJOR BASIN

IJC DESIGNATION

: GREAT LAKES

MINOR BASIN

: LAKE ONTARIO

· DIRECT

DESIGN CAPACITY : 409.14 1000 m3

POPULATION SERVED: 660000

SUSPENDED SOLIDS 1987 | AVG DAY 5 DAY BOD TOTAL PHOSPHORUS FLOW INF EFF LOAD INF EFF LOAD IINF LOAD |(1000 m3/d) |(mg/L) (mg/L) (%REM) |(mg/L) (mg/L) (%REM) (kg/d) (kg/d) (mg/L) (mg/L) (kg/d) | 205.0 JAN 374.800 12.3 4610.040 | 359.0 23.5 8807.800 | 8.8 1.6 \* 607.176 | 364.100 267.0 11.2 4077.920 | 350.0 FEB 26.2 9539.420 | 9.2 1.3 \* 480.612 I MAR 400.700 1 232.0 11.0 4407.700 | 304.0 19.5 7813.650 | 8.8 0.9 372,651 I APR 441.700 213.0 8.0 3533.600 | 320.0 15.0 6625.500 | 8.1 0.7 313.607 | 385.300 1 222.0 MAY 12.1 4662.130 | 293.0 30.6 11790.180 | 8.2 1.1 \* 404.565 1 204.0 JUN 408.300 4.3 1755.690 | 390.0 15.2 6206.160 | 9.5 0.7 269.478 | JUL 420.900 1 197.0 7.2 3030.480 | 329.0 21.4 9007.260 | 8.0 0.8 319.884 | AUG 412.387 1 216.0 5.4 2226.890 | 279.0 13.4 5525.986 | 7.6 0.8 346,405 | 417.500 SEP 209.0 5.8 2421.500 | 313.0 14.6 6095.500 |12.2 0.9 375.750 | 401.300 OCT 1 200.0 10.1 4053.130 | 328.0 18.3 7343.790 | 7.8 0.8 317.027 | 217.0 NOV 391.100 12.6 4927.860 | 336.0 27.7 10833.470 | 9.5 1.2 \* 461.498 6298.880 | 7.6 DEC 414.400 1 176.0 7.5 3108.000 | 345.0 15.2 0.6 236.208

3567.912 | 329.0

COMPLIANCE :

AVERAGE: 402.707

OBSERVATIONS:12

**EXCEEDANCES** 

NO OF SAMPLES

CRITERIA :

TP - 1.0 mg/l

9.0

12

247

NOTE :

12

365

BOD - YES BOO - 25 mg/l SS - YES SS - 25 mg/l

213.0

12

241

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

1 12

363

7990.633 | 8.8

0 0

12

4

358

- EXCEEDS EFFLUENT CRITERIA

ND - NO DATA

20.1

12

326

ANTICIPATED COMPLIANCE

375.405

REMEDIAL MEASURES BEING EVALUATED PROCESS AND/OR EQUIPMENT UPGRADING - REVERTING TO OTHER PROCESS

UPGRADING SLUDGE QUALITY

TP - NO

REMEDIAL MEASURES

FACILITY EXPANSION AND/OR UPGRADING - UNDER CONSTRUCTION

CONDUCTING TREATABILITY STUDIES IMPLEMENTING A PLANT PERFORMANCE MONITORING PROGRAM 88/07/04 90/07/04

88/02/01

START DATE END DATE

87/02/01 88/07/04

88/08/01

B-211

MUNICIPALITY : METRO TORONTO

PLANT : MAIN WPCP (TORONTO)

WORKS NUMBER : 120000391

TREATMENT : CONVENTIONAL ACTIVATED SLUDGE

PHOSPHORUS REMOVAL - CONTINUOUS

: CENTRAL

REGION DISTRICT : METRO TORONTO EAST OPERATING AUTHORITY : MUNICIPAL

WATERCOURSE

: LAKE ONTARIO

MAJOR BASIN MINOR BASIN : LAKE ONTARIO

: GREAT LAKES

IJC DESIGNATION : DIRECT

POPULATION SERVED : 1200000

DESIGN CAPACITY : 818.28 1000 m3

1987	A	G DAY	1		5 DA	Y BOD			SUSPEN	DED SOL	IDS	1 1	TOTAL PHO	SPHORUS
	1	FLOW	1	NF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(10	00 m3/d)	1(1	ng/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d
JAN	   (	683.000	1	61.0	7.7		5259.100	245.0	16.7		11406.100	6.1	0.5	348.33
FEB	1	764.000	1	59.0	13.9		10619.600	202.0	33.5		25594.000	5.7	0.9	679.96
MAR	İ	773.687	1 1	45.0	10.7		8278.451	209.0	21.7		16789.008	6.3	0.6	471.94
APR	1	305.696	1 1	35.0	7.3		5881.581	214.0	15.1		12166.010	5.6	0.4	354.50
YAY	1 (	507.451	1	50.0	11.3		6864.196	190.0	29.5		17919.805	5.6	0.7	449.51
JUN	1 1	853.000	1	87.0	17.6		15012.800	275.0	23.1		19704.300	6.5	0.7	562.98
JUL	1 8	893.000	1	53.0	7.5		6697.500	277.0	14.0		12502.000	5.4	0.4	357.20
AUG	1	881.616	1	60.0	7.7		6788.443	241.0	17.6		15516.442	5.1	0.5	396.72
SEP	1	846.270	1	95.0	16.0		13540.320	296.0	42.2		35712.594	6.6	1.0	880.12
OCT	1	714.100	2	47.0	15.0		10711.500	262.0	20.3		14496.230	6.1	0.7	485.58
NOV		711.100	1 2	201.0	8.2		5831.020	306.0	26.6		18915.260	6.0	0.7	490.65
DEC	'	674.000	2	203.0	14.2		9570.800	229.0 	15.9		10716.600	5.3	0.6	377.44
VFRA	GF -	767.243	i I 1	75.0	11.4		8754.609	246.0	23.0		17619.862	1 5.9	0.6	487.91
		ONS:12	1	12	12		0,54.007	1 12	12		17017.002	1 12	12	407.9
XCEE			i	, _	12			'2	12			12	12	
10 OF	SAM	PLES	1	232	224			361	349			347	348	

COMPLIANCE :

CRITERIA :

NOTE :

BOD - YES

BOD - 25 mg/l SS - 25 mg/l

TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - YES

\* - EXCEEDS EFFLUENT CRITERIA

TP - YES

TP - 1.0 mg/l

ND - NO DATA

ANTICIPATED

REMEDIAL MEASURES

START DATE END DATE

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

COMPLIANCE

MAINTENANCE AND/OR OPERATION UPGRADING-START-UP DIFFICULTIES BEING REMEDIED FACILITY EXPANSION AND/OR UPGRADING-UNDER CONSTRUCTION

MUNICIPALITY : METRO TORONTO

PLANT : NORTH TORONTO WPCP (EAST YORK)

WORKS NUMBER : 120000364

TREATMENT : CONVENTIONAL ACTIVATED SLUDGE

PHOSPHORUS REMOVAL-CONTINUOUS

REGION : CENTRAL

DISTRICT : METRO TORONTO EAST

OPERATING AUTHORITY : MUNICIPAL

WATERCOURSE : DON RIVER

MAJOR BASIN : GREAT LAKES

MINOR BASIN : LAKE ONTARIO

IJC DESIGNATION : INDIRECT

DESIGN CAPACITY : 45.46 1000 m3
POPULATION SERVED : 55000

1987	AVG DAY	1	5 DA	Y BOD		Ï	SUSPEN	DED SOLI	DS	Ι,	TOTAL PHO	SPHORUS
	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	36.500	256.0	18.1		660.650	1 158.0	13.5		492.750	5.1	0.8	30.660
FEB	36.800	176.0	20.3		747.040	157.0	16.7		614.560	4.8	0.8	30.176
MAR	38.000	217.0	25.1		953.800	159.0	19.6		744.800	4.8	0.9	33.820
APR	37.400	182.0	19.4		725.560	135.0	8.0		299.200	4.2	0.6	22.440
MAY	34.000	206.0	15.6		530.400	158.0	4.7		159.800	4.9	0.8	25.84
JUN	36.300	153.0	13.6		493.680	138.0	5.1		185.130	4.9	0.8	29.40
JUL	36.700	215.0	12.3		451.410	102.0	4.1		150.470	3.8	0.7	25.69
AUG	36.300	197.0	14.6		529.980	130.0	6.6		239.580	4.3	0.7	26.13
SEP	37.900	229.0	15.4		583.660	150.0	5.9		223.610	4.5	0.8	31.45
OCT	37.800	251.0	21.4		808.920	153.0	6.0		226.800	4.7	1.0	37.04
NOV	37.300	280.0	23.4		872.820	135.0	6.7		249.910	5.0	0.7	24.24
DEC	34.800	244.0	18.5		643.800	141.0	14.3		497.640	4.3	0.7	25.40
		<u> </u>				1				1		
AVERA	GE: 36.650	1 217.0	18.1		666.810	   143.0	9.3		340.354	1 4.6	0.8	28.52
OBSER	VATIONS:12	12	12			12	12			12	12	
Mile state	DANCES SAMPLES	   195	194			   364	363			  363	361	

COMPLIANCE :

CRITERIA :

NOTE :

BOD - YES BOD - 25 mg/l SS - YES SS - 25 mg/l TP - YES TP - 1.0 mg/l TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

\* - EXCEEDS EFFLUENT CRITERIA

ND - NO DATA

ANTICIPATED

REMEDIAL MEASURES

START DATE END DATE

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

COMPLIANCE

MUNICIPALITY : MIDLAND

PLANT : MIDLAND WPCP

WORKS NUMBER : 110000463

TREATMENT : CONVENTIONAL ACTIVATED SLUDGE

PHOSPHORUS REMOVAL - CONTINUOUS

REGION

: CENTRAL

DISTRICT

: BARRIE

WATERCOURSE

OPERATING AUTHORITY : MUNICIPAL

MAJOR BASIN

: MIDLAND BAY

MINOR BASIN

: GREAT LAKES : LAKE HURON

IJC DESIGNATION

: DIRECT

DESIGN CAPACITY : 13.63 1000 m3

POPULATION SERVED : 12000

	T	SERVED	: 1200 T				1				-		
1987	A	/G DAY	i	5 DA	Y BOD		i	SUSPEN	DED SOLI	DS	i :	TOTAL PHO	SPHORUS
	1 1	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(10	00 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	l 1	10.333	74.0	7.9		81.631	1 161.0	5.5		56.831	7.9	0.7	6.923
FEB	ı	10.672	98.0	7.9		84.309	124.0	5.6		59.763	5.0	0.5	5.443
MAR	1	13.064	61.0	5.9		77.078	133.0	10.1		131.946	5.0	0.5	6.27
APR	1	12.479	46.0	6.1		76.122	130.0	8.9		111.063	3.2	0.3	4.243
MAY	l	10.397	63.0	10.2		106.049	126.0	10.7		111.248	6.4	0.6	6.65
JUN	1	11.122	98.0	7.7		85.639	155.0	6.4		71.181	5.7	0.5	5.22
JUL	1	10.679	70.0	3.2		34.173	162.0	5.2		55.531	2.1	0.6	6.08
AUG	1	10.471	ND	ND		ND	ND	ND		ND	ND	ND	ND
SEP	1	10.393	67.0	4.7		48.847	226.0	4.4		45.729	8.2	0.6	6.44
OCT	1	11.173	100.0	3.8		42.457	159.0	5.8		64.803	1 5.4	1.2 *	13.07
NOV	1	11.756	82.0	5.9		69.360	161.0	8.3		97.575	4.7	0.8	9.05
DEC	 	11.263	52.0 	4.2		47.305	101.0 	4.5		50.684	4.9 	0.6	6.64
AVERA	GE :	11.150	74.0	6.1		68.452	1 149.0	6.9		77.850	5.3	0.6	6.91
OBSER EXCEE		ONS:12 ES	] 11 ]	11			11 	11			11 	11 1	
NO OF	SAM	PLES	J 21	20			i 21	21			21	20	

COMPLIANCE :

CRITERIA :

NOTE :

BOD - YES SS - YES

BOD - 25 mg/l

SS - 25 mg/l

TP - NO TP - 1.0 mg/l BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

\* - EXCEEDS EFFLUENT CRITERIA

ND - NO DATA

ANTICIPATED

REMEDIAL MEASURES

START DATE END DATE

COMPLIANCE

MUNICIPALITY : MILLBROOK

PLANT : MILLBROOK WPCP

WORKS NUMBER : 110002238

TREATMENT : EXTENDED AERATION

PHOSPHORUS REMOVAL - CONTINUOUS

REGION

: CENTRAL

DISTRICT

: PETERBOROUGH

OPERATING AUTHORITY : MINISTRY

WATERCOURSE

: BAXTER CREEK

MAJOR BASIN

: GREAT LAKES

MINOR BASIN

: LAKE ONTARIO

DESIGN CAPACITY : 1.13 1000 m3

POPULATION SERVED: 975

IJC DESIGNATION : INDIRECT

	Π	es vener		Part Assess				V2002-V200888A	CONTROL SCANDOCHUS	Tan Sa			
1987	AV	G DAY	l	5 DA	Y BOD		l	SUSPEN	DED SOLI	DS	1	TOTAL PHO	SPHORUS
	F	LOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(100	0 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN		0.865	40.0	1.9		1.643	   27.0	6.9		5.969	3.4	0.1	0.069
FEB	Ī	0.780	129.0	7.8		6.084	71.0	4.3		3.354	2.8	0.2	0.164
MAR	1	1.106	91.0	6.0		6.636	76.0	8.0		8.848	5.1	0.4	0.420
APR	1	1.262	41.0	4.5		5.679	41.0	7.4		9.339	3.8	0.3	0.379
MAY	1	0.848	31.0	ND		ND	48.0	5.9		5.003	5.3	ND	ND
JUN	1	0.762	90.0	3.7		2.819	65.0	3.0		2.286	5.4	0.3	0.191
JUL	1	0.728	86.0	1.9		1.383	56.0	3.4		2.475	3.4	0.4	0.284
AUG	1	0.730	67.0	1.4		1.022	46.0	2.6		1.898	5.0	0.3	0.182
SEP	1	0.820	90.0	3.7		3.034	69.0	3.6		2.952	1.9	0.2	0.189
OCT	1	0.934	67.0	3.8		3.549	ND	7.8		7.285	4.4	0.3	0.262
NOV	1	0.972	110.0	6.5		6.318	138.0	5.9		5.735	5.8	0.1	0.078
DEC	1	1.192	107.0 	7.1		8.463	86.0 	6.4		7.629	3.5 	0.6	0.715
AVERA	GE:	0.917	79.0	4.4		4.239	66.0	5.4		5.231	4.1	0.3	0.267
OBSER EXCEE		ONS:12	12 	11			11 	12			12 	11	
NO OF	SAME	PLES	j 14	17			13	13			16	13	

COMPLIANCE :

CRITERIA :

NOTE :

BOD - YES SS - YES

BOD - 25 mg/l

SS - 25 mg/l

TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS. \* - EXCEEDS EFFLUENT CRITERIA

TP - 1.0 mg/l TP - YES

ND - NO DATA

ANTICIPATED

REMEDIAL MEASURES

START DATE END DATE

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

COMPLIANCE

MUNICIPALITY : MILTON

PLANT : MILTON WPCP

WORKS NUMBER : 120001014

TREATMENT : CONVENTIONAL ACTIVATED SLUDGE

PHOSPHORUS REMOVAL - CONTINUOUS EFFLUENT POLISHING

DESIGN CAPACITY : 12.91 1000 m3

REGION

: CENTRAL

DISTRICT

: HALTON PEEL

WATERCOURSE

OPERATING AUTHORITY : MUNICIPAL : OAKVILLE CREEK

MAJOR BASIN

: GREAT LAKES

MINOR BASIN

: LAKE ONTARIO

IJC DESIGNATION : INDIRECT

POPULATION SERVED: 23203

	1		T										
1987	AVG	DAY	1	5 DA	Y BOD		ľ	SUSPEN	DED SOLI	DS	1	TOTAL PHO	SPHORUS
	FLC	W	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000	m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
12212	!		Ţ				T				I		2 55
JAN		7.700	150.0	3.6		34.920	218.0	1.2		11.640	Description and	0.2	1.940
FEB	1 5	2.300	124.0	3.6		33.480	139.0	1.7		15.810	10.3	1.0	9.021
MAR	1 9	2.670	166.0	3.7		35.779	156.0	2.4		23.208	5.3	0.3	2.514
APR	12	2.000	130.0	4.5		54.000	150.0	3.2		38.400	4.8	0.2	2.160
MAY	9	9.800	145.0	5.6		54.880	140.0	3.5		34.300	8.6	0.5	4.900
JUN	1 9	9.561	143.0	4.3		41.112	120.0	2.4		22.946	9.4	0.3	2.868
JUL	10	0.800	119.0	2.2		23.760	77.0	2.7		29.160	4.9	0.4	4.644
AUG	9	9.600	248.0	1.9		18.240	93.0	2.6		24.960	10.4	0.3	2.400
SEP	1 10	0.000	195.0	3.7		37.000	163.0	3.2		32.000	8.6	0.3	2.600
OCT	1 9	9.500	121.0	2.4		22.800	90.0	1.6		15.200	8.1	0.1	0.760
NOV	10	0.800	199.0	2.3		24.840	166.0	1.0		10.800	7.8	0.1	1.188
DEC	1	1.800	133.0	4.5		53.100	118.0	1.0		11.800	5.0	0.1	1.180
	<u> </u>		1				[ 				1	_	
AVERA	GE: 10	0.211	1 156.0	3.5		36.159	136.0	2.2		22.519	7.7	0.3	3.015
OBSER	VATIONS	S:12	12	12			12	12			12	12	
EXCEE	DANCES		1				1				t		
NO OF	SAMPLE	ES	32	33			32	33			31	31	
			1				I				1		

COMPLIANCE :

CRITERIA :

NOTE :

BOD - YES SS - YES

TP - YES

BOD - 25 mg/l

SS - 25 mg/l

TP - 1.0 mg/l

TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

\* - EXCEEDS EFFLUENT CRITERIA

ND - NO DATA

ANTICIPATED

REMEDIAL MEASURES

START DATE END DATE

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

COMPLIANCE

MUNICIPALITY : MISSISSAUGA

PLANT : CLARKSON WPCP SOUTH-PEEL SYSTEM

WORKS NUMBER : 110001328

TREATMENT : CONVENTIONAL ACTIVATED SLUDGE

PHOSPHORUS REMOVAL - CONTINUOUS

: CENTRAL : HALTON PEEL

DISTRICT OPERATING AUTHORITY : MINISTRY

WATERCOURSE

: LAKE ONTARIO

MAJOR BASIN

: GREAT LAKES

MINOR BASIN

: LAKE ONTARIO

IJC DESIGNATION : DIRECT

DESIGN CAPACITY : 109.10 1000 m3

POPULATION SERVED: 120000

1987	AVG DAY	1	5 DA	Y BOD		1	SUSPEN	DED SOLI	DS	1 1	OTAL PHO	SPHORUS
	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	70.930	1 129.0	13.0		922.090	   157.0	10.0		709.300	   7.7	0.8	53.907
FEB	64.160	139.0	14.0		898.240	126.0	10.0		641.600	7.7	0.7	46.195
MAR	71.820	145.0	12.0		861.840	166.0	8.0		574.560	6.3	0.8	60.329
APR	81.290	140.0	14.0		1138.060	155.0	9.0		731.610	7.1	1.0	78.038
MAY	72.630	207.0	14.0		1016.820	248.0	8.0		581.040	9.8	1.0	69.725
JUN	77.850	118.0	14.0		1089.900	175.0	11.0		856.350	7.0	1.0	79.407
JUL	81.590	127.0	13.0		1060.670	137.0	11.0		897.490	7.7	0.8	67.720
AUG	74.210	142.0	14.0		1038.940	121.0	10.0		742.100	8.5	0.9	69.75
SEP	74.369	173.0	11.0		818.059	168.0	8.0		594.952	7.4	0.9	63.214
OCT	70.623	246.0	17.7		1250.027	271.0	11.3		798.040	9.4	1.0	68.50
NOV	74.537	187.0	15.6		1162.777	228.0	10.2		760.277	10.1	0.9	69.319
DEC	82.268	232.0	18.7		1538.412	262.0	13.2		1085.938	11.6	1.0	81.445
	1	<u> </u>				1				<u> </u>		
AVERA	GE: 74.690	1 165.0	14.2		1066.320	1 184.0	10.0		747.771	l   8.4	0.9	67.297
	VATIONS:12 DANCES	12 	12			12 	12			12 	12	
NO OF	SAMPLES	72	213			72	213			I 72	179	

COMPLIANCE :

CRITERIA :

NOTE :

BOD - YES SS - YES

BOD - 25 mg/l

SS - 25 mg/l

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

\* - EXCEEDS EFFLUENT CRITERIA

TP - YES TP - 1.0 mg/l

ND - NO DATA

ANTICIPATED

REMEDIAL MEASURES

START DATE END DATE

COMPLIANCE

MUNICIPALITY : MISSISSAUGA REGION : CENTRAL
PLANT : LAKEVIEW WPCP SOUTH-PEEL SYSTEM DISTRICT : HALTON PEEL

WORKS NUMBER : 110001284

TREATMENT : CONVENTIONAL ACTIVATED SLUDGE

PHOSPHORUS REMOVAL-CONTINUOUS MAJOR BASIN

MINOR BASIN : LAKE ONTARIO

IJC DESIGNATION : DIRECT

: LAKE ONTARIO

: GREAT LAKES

OPERATING AUTHORITY : MINISTRY

WATERCOURSE

DESIGN CAPACITY : 284.12 1000 m3

POPULATION SERVED: 370000

1987	AVG DAY	1	5 DA	Y BOD		1	SUSPEN	DED SOLI	DS	1	TOTAL PHO	SPHORUS
	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d
JAN	244.997	249.0	15.2		3723.954	l   199.0	12.0		2939.964	5.9	0.5	115.149
FEB	239.054	303.0	16.5		3944.391	292.0	13.4		3203.324	8.8	0.6	143.432
MAR	258.942	237.0	19.9		5152.946	197.0	12.6		3262.669	7.4	0.6	155.365
APR	285.727	203.0	12.4		3543.015	178.0	10.8		3085.852	4.9	0.4	125.720
MAY	243.939	262.0	20.2		4927.568	170.0	11.8		2878.480	5.2	0.5	129.288
JUN	255.543	251.0	18.5		4727.546	150.0	24.1		6158.586	6.0	1.0	265.76
JUL	259.055	269.0	21.6		5595.588	223.0	29.1		7538.501	6.6	0.7	191.70
AUG	255.868	213.0	23.6		6038.485	199.0	9.6		2456.333	6.7	1.3 *	337.74
SEP	260.423	224.0	19.8		5156.375	192.0	11.7		3046.949	7.8	0.9	223.96
OCT	248.942	266.0	14.5		3609.659	223.0	13.9		3460.294	7.9	1.1 *	276.32
NOV	257.207	242.0	19.4		4989.816	231.0	10.6		2726.394	8.2	0.8	200.62
DEC	273.447 	273.0 	11.4		3117.296	206.0 	11.9		3254.019	6.8 	0.4	101.17
AVERA	GE: 256.929	1 249.0	17.8		4543.887	205.0	14.3		3667.614	1 6.9	0.7	188.85
OBSER	VATIONS: 12	j 12	12			1 12	12			12	12	
EXCEE	DANCES	i				i				i	2	
NO OF	SAMPLES	339	316			264	298			223	304	

COMPLIANCE : CRITERIA : NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

BOD - YES BOD - 25 mg/l TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - YES SS - 25 mg/l \* - EXCEEDS EFFLUENT CRITERIA

TP - NO TP - 1.0 mg/L ND - NO DATA

ANTICIPATED

REMEDIAL MEASURES START DATE END DATE COMPLIANCE

ENGINEERING STUDY PHASE SEWER REPAIR UNDERWAY

MONITORING PROCEDURES AND/OR EQUIPMENT BEING UPGRADED

PHOSPHORUS REMOVAL OPERATION UNDER REVIEW

PROCESS CONTROL IMPROVEMENTS UNDERWAY

EXISTING EQUIPMENT/OPERATION IS BEING MODIFIED

REMEDIAL MEASURES BEING EVALUATED

MUNICIPALITY : MUSKOKA LAKES

PLANT : BALA WPCP WORKS NUMBER : 120000792

TREATMENT : COMMUNAL SEPTIC TANK

PHOSPHORUS REMOVAL - CONTINUOUS

EFFLUENT FILTRATION

DESIGN CAPACITY : 0.09 1000 m3

POPULATION SERVED : 113 REGION

: CENTRAL

DISTRICT

: MUSKOKA

OPERATING AUTHORITY : MUNICIPAL

WATERCOURSE

: LONG LAKE

MAJOR BASIN

: GREAT LAKES

MINOR BASIN

: LAKE HURON

IJC DESIGNATION : INDIRECT

1987	AVG DAY		I	5 D#	NY BOD			SUSPEN	IDED SOLI	DS	1	TOTAL PHO	SPHORUS
	FLOW		INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/	d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	0.02	8	1 101.0	8.4	92	0.235	76.0	17.5	77	0.490	3.4	0.6	0.017
FEB	0.05	3	ND	ND	0	ND	ND	ND	0	ND	ND	ND	ND
MAR	0.05	2	17.0	8.6	49	0.447	87.0	14.0	84	0.728	0.5	0.4	0.021
APR	0.02	8	ND	ND	0	ND	ND	ND	0	ND	ND	ND	ND
MAY	0.03	0	60.0	22.0	63	0.660	77.0	40.6	47	1.218	1.5	1.0	0.028
JUN	0.04	1	69.0	0.2	100	0.008	55.0	68.8	0	2.821	3.2	0.2	0.010
JUL	0.04	6	101.0	8.4	92	0.386	76.0	7.5	90	0.345	3.4	0.6	0.027
AUG	0.04	0	96.0	7.3	92	0.292	43.0	24.0	44	0.960	3.9	2.0 *	0.080
SEP	0.03	5	122.0	1.0	99	0.035	75.0	12.2	84	0.427	5.4	2.7 *	0.095
OCT	1 0.03	6	1 25.0	2.3	91	0.083	1 26.0	8.1	69	0.292	10.7	0.4	0.015

	16.51			100		10000000	16000	0.000		•	•	0.272	V.,	0.4	0.015
1	NOV	1	0.480	1	21.0	3.1	85	1.488	22.0	69.7	0	33.456	1.3	0.2	0.086
1	DEC	1	0.700	1	22.0	1.3	94	0.910   	23.0	60.2	0	42.140	1.4	0.9	0.609
1	AVER	AGE:	0.131	I	63.0	6.3	86	0.454	56.0	32.3	71	8.288	2.5	0.9	0.099
1	OBSE	RVATIO	ONS:12	1	10	10		ĺ	10	10			10	10	1
١	EXCE	EDANC	ES	1				1						2	i
1	NO O	FSAMI	PLES	1	21	24		1	19	15			21	25	i
1				1				1							j

COMPLIANCE :

CRITERIA :

NOTE :

BOD - YES SS - YES

BOD - 50% ss - 70%

TP - NO TP - 1.0 mg/l BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

\* - EXCEEDS EFFLUENT CRITERIA

ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	COMPLIANCE
UNDER DISCUSSION WITH MUNICIPALITY	87/06/01	88/06/30	
FUNDING UNDER REVIEW	87/06/01	88/06/30	
ENVIRONMENTAL ASSESSMENT PROCESS	87/10/01		90/12/31
PROGRAM UNDER REVIEW	87/06/01	88/06/30	55-71 <b>-2</b> 71.77 - <b>3</b> -3-11.71
INPLANT SAMPLING PROGRAM IS BEING MODIFIED	87/10/01	AND THE PERSON NAMED IN COLUMN 2	
REMEDIAL MEASURES BEING EVALUATED	87/10/01		

DISTRICT MUNICIPALITY : MUSKOKA LAKES : CENTRAL PLANT : PORT CARLING WPCP : MUSKOKA WORKS NUMBER: 110002229 OPERATING AUTHORITY : MUNICIPAL

TREATMENT : EXTENDED AERATION WATERCOURSE : INDIAN RIVER MAJOR BASIN PHOSPHORUS REMOVAL - CONTINUOUS : GREAT LAKES

MINOR BASIN : LAKE HURON EFFLUENT POLISHING IJC DESIGNATION : INDIRECT DESIGN CAPACITY : 0.54 1000 m3

POPULATION SERVED: 700

		50000	1	Add No. o			I				I		
1987	AVG D	AY	1	5 DA	Y BOD		l	SUSPEN	DED SOLI	DS	1	TOTAL PHO	SPHORUS
	FLOW		INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m	3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	0.	163	1 121.0	5.8		0.945	99.0	11.4		1.858	7.4	0.7	0.106
FEB	0.	195	ND	ND		ND	ND	ND		ND	ND	ND	ND
MAR	0.	181	56.0	1.8		0.326	61.0	9.1		1.647	3.6	0.5	0.085
APR	0.	192	ND	ND		ND	ND	ND		ND	ND	ND	ND
MAY	0.	158	54.0	10.3		1.627	88.0	3.2		0.506	6.5	0.3	0.051
JUN	0.	155	178.0	1.8		0.279	166.0	5.6		0.868	9.1	0.7	0.105
JUL	0.	269	49.0	1.2		0.323	35.0	4.0		1.076	2.6	0.9	0.229
AUG	0.	258	164.0	2.1		0.542	52.0	1.6		0.413	10.2	0.2	0.046
SEP	0.	178	101.0	1.6		0.285	55.0	6.4		1.139	5.7	0.2	0.032
OCT	0.	106	88.0	2.1		0.223	52.0	8.9		0.943	2.4	0.4	0.039
NOV	0.	105	26.0	8.3		0.872	31.0	2.7		0.284	2.2	0.1	0.009
DEC	0. 	166	64.0 	0.4		0.066	127.0 	0.3		0.050	4.8 	0.0	0.002
AVERA	GE: 0.	177	90.0	3.5		0.549	77.0	5.3		0.878	,     5.5	0.4	0.070
	VATIONS:	12	10 	10			10 	10			10 	10	
NO OF	SAMPLES		1 10	10			10	10			10	10	
			1				I				i		

COMPLIANCE : CRITERIA : NOTE :

> BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS BOD - 25 mg/l SS - 25 mg/l BOD - YES TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

\* - EXCEEDS EFFLUENT CRITERIA SS - YES

TP - YES TP - 1.0 mg/l ND - NO DATA

ANTICIPATED

REMEDIAL MEASURES START DATE END DATE COMPLIANCE

MUNICIPALITY : NEWCASTLE : CENTRAL

DISTRICT PLANT : GRAHAM CREEK WPCP (NEWCASTLE) : YORK DURHAM WORKS NUMBER : 110001569 OPERATING AUTHORITY : MUNICIPAL

TREATMENT : EXTENDED AERATION WATERCOURSE : LAKE ONTARIO

MAJOR BASIN : GREAT LAKES MINOR BASIN : LAKE ONTARIO

DESIGN CAPACITY : 1.81 1000 m3 IJC DESIGNATION : DIRECT

POPULATION SERVED: 1866

	T	τ								т		
1987	AVG DAY	İ	5 DA	Y BOD		<b>.</b>	SUSPEN	DED SOLI	DS	i	TOTAL PHO	SPHORUS
	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	1.154	75.0	4.8		5.539	   92.0	6.8		7.847	4.6	1.6	1.846
FEB	0.980	121.0	17.2		16.856	ND	ND		ND	ND	ND	ND
MAR	1.372	68.0	8.5		11.662	65.0	11.2		15.366	4.9	1.3	1.715
APR	1.731	71.0	2.8		4.847	96.0	10.5		18.175	3.1	1.9	3.324
MAY	0.895	211.0	13.1		11.724	150.0	8.4		7.518	ND	ND	ND
JUN	0.790	222.0	2.3		1.817	189.0	5.5		4.345	8.5	3.0	2.378
JUL	0.787	107.0	5.0		3.935	248.0	9.0		7.083	5.8	2.8	2.196
AUG	0.806	181.0	4.5		3.627	196.0	5.3		4.272	15.9	3.9	3.176
SEP	1.088	128.0	0.6		0.653	83.0	6.7		7.290	7.8	3.2	3.503
OCT	1.149	22.0	3.0		3.447	75.0	7.7		8.847	16.7	2.6	2.953
NOV	1.449	58.0	11.2		16.229	76.0	11.8		17.098	4.6	1.1	1.608
DEC	1.383 	140.0 	5.8		8.021	145.0 	10.5		14.521	7.5 	1.1	1.466
AVERA	GE: 1.132	117.0	6.6		7.363	129.0	8.5		10.215	1 7.9	2.2	2.417
	VATIONS:12 DANCES	12 	12			i 11	11			10	10	7.500
NO OF	SAMPLES	12	12			11	175			10	10	

COMPLIANCE : CRITERIA : NOTE :

> BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS BOD - YES

BOD - 25 mg/l TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - YES SS - 25 mg/l \* - EXCEEDS EFFLUENT CRITERIA

TP - NONE TP - YES ND - NO DATA

ANTICIPATED REMEDIAL MEASURES START DATE END DATE COMPLIANCE

MUNICIPALITY : NEWCASTLE REGION : CENTRAL DISTRICT : YORK DURHAM PLANT : PORT DARLINGTON WPCP OPERATING AUTHORITY : MUNICIPAL

WORKS NUMBER : 120003076

TREATMENT : CONVENTIONAL ACTIVATED SLUDGE WATERCOURSE : LAKE ONTARIO PHOSPHORUS REMOVAL - CONTINUOUS MAJOR BASIN : GREAT LAKES

> MINOR BASIN : LAKE ONTARIO

IJC DESIGNATION : DIRECT DESIGN CAPACITY : 4.54 1000 m3

POPULATION SERVED: 12831

1987	AVG DAY	I	5 DA	Y BOD		1	SUSPEN	DED SOLI	DS	1 1	TOTAL PHO	SPHORUS
	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	   7.952	54.0	23.7		188.462	   89.0	8.4		66.797	5.4	1.0	7.713
FEB	6.640	122.0	19.4		128.816	110.0	10.8		71.712	6.2	0.7	4.316
MAR	9.013	72.0	21.0		189.273	67.0	9.9		89.229	3.4	0.8	7.481
APR	6.818	237.0	23.1		157.496	650.0	13.2		89.998	5.6	0.8	5.523
MAY	6.032	139.0	20.9		126.069	127.0	12.7		76.606	5.8	0.7	4.283
JUN	5.052	277.0	3.4		17.177	128.0	10.1		51.025	6.0	0.6	2.779
JUL	6.338	168.0	5.3		33.591	133.0	10.3		65.281	6.5	0.7	4.500
AUG	5.634	147.0	12.1		68.171	119.0	10.3		58.030	7.9	0.7	4.113
SEP	7.702	133.0	7.2		55.454	173.0	17.1		131.704	11.9	1.9 *	14.94
OCT	7.468	33.0	12.0		89.616	53.0	13.2		98.578	6.8	1.4 *	10.45
NOV	9.706	53.0	26.9		261.091	63.0	13.2		128.119	3.2	1.0	9.22
DEC	11.222 	82.0 	9.3		104.365	71.0 	16.5		185.163	3.1 	0.5	6.060
AVERA	GE: 7.465	1 126.0	15.4		118.298	149.0	12.1		92.687	6.0	0.9	6.782
	VATIONS: 12 DANCES	12 	12			12 	12			12 	12 2	
NO OF	SAMPLES	12	12			1 12	299			85	284	

COMPLIANCE : CRITERIA : NOTE :

> BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS BOD - YES BOD - 25 mg/l TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - 25 mg/l SS - YES \* - EXCEEDS EFFLUENT CRITERIA

TP - NO TP - 1.0 mg/l ND - NO DATA

ANTICIPATED

REMEDIAL MEASURES START DATE END DATE COMPLIANCE

MUNICIPALITY: NORWOOD: CENTRAL

PLANT : NORWOOD WPCP DISTRICT : PETERBOROUGH
WORKS NUMBER : 110001499 OPERATING AUTHORITY : MINISTRY

TREATMENT : OXIDATION DITCH WATERCOURSE : OUSE RIVER
PHOSPHORUS REMOVAL-CONTINUOUS MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ONTARIO

DESIGN CAPACITY : 0.72 1000 m3 IJC DESIGNATION : INDIRECT

POPULATION SERVED : 1117

1987	A\	G DAY	Ĩ	5 DA	Y BOD		l	SUSPEN	DED SOLI	DS		TOTAL PHO	SPHORUS
	] ;	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(100	00 m3/d)	(mg/L	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	1	0.447	76.0	6.3		2.816	   88.0	6.6		2.950	2.6	0.6	0.286
FEB	1	0.447	19.0	17.8		7.957	47.0	23.0		10.281	1.8	0.9	0.407
MAR	l	0.579	55.0	24.0		13.896	26.0	17.8		10.306	2.5	0.9	0.521
APR	I	0.879	56.0	9.7		8.526	21.0	7.5		6.593	2.3	0.4	0.334
MAY	1	0.547	65.0	3.0		1.641	67.0	4.2		2.297	4.5	0.9	0.492
JUN	1	0.469	29.	2.0		0.938	37.0	3.6		1.688	3.4	0.3	0.13
JUL	1	0.417	ND	2.0		0.834	65.0	3.9		1.626	4.7	0.5	0.188
AUG	1	0.387	52.	6.2		2.399	45.0	3.7		1.432	3.3	0.3	0.112
SEP	1	0.392	48.	4.3		1.686	58.0	3.1		1.215	3.5	0.8	0.318
OCT	1	0.449	65.	8.7		3.906	44.0	3.5		1.572	6.1	1.0	0.449
NOV	1	0.433	26.	9.2		3.984	22.0	5.2		2.252	2.0	0.5	0.21
DEC	1	0.515	103.0	8.3		4.275	100.0 	6.1		3.141	7.2 	0.5	0.23
AVERA	GE:	0.497	54.	8.5		4.405	52.0	7.4		3.779	3.7	0.6	0.307
OBSER EXCEE		ONS:12 ES	[ 11 ]	12			12 	12			12 	12	
NO OF	SAMI	PLES	j 11	13			1 12	12			1 12	12	

COMPLIANCE : CRITERIA : NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

BOD - YES BOD - 25 mg/L TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - YES SS - 25 mg/l \* - EXCEEDS EFFLUENT CRITERIA

TP - YES TP - 1.0 mg/l ND - NO DATA

REMEDIAL MEASURES START DATE END DATE COMPLIANCE

REMEDIAL MEASURES START DATE END DATE COMPLIANCE

MUNICIPALITY : OAKVILLE

: SOUTH EAST WPCP PLANT

WORKS NUMBER : 120000998

TREATMENT : CONVENTIONAL ACTIVATED SLUDGE

PHOSPHORUS REMOVAL - CONTINUOUS

REGION

: CENTRAL

DISTRICT

: HALTON PEEL

WATERCOURSE

OPERATING AUTHORITY : MUNICIPAL

MAJOR BASIN

: LAKE ONTARIO

MINOR BASIN

: GREAT LAKES : LAKE ONTARIO

IJC DESIGNATION

: DIRECT

DESIGN CAPACITY :

22.73 1000 m3

POPULATION SERVED: 21900

1987	A	G DAY	1	5 DA	Y BOD		1	SUSPEN	DED SOLI	DS	1 1	TOTAL PHO	SPHORUS
	1 1	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(100	00 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	i	14.400	1 165.0	4.9		70.560	1 146.0	10.7		154.080	5.6	0.6	8.352
FEB	1	12.914	144.0	3.9		50.365	102.0	6.8		87.815	6.7	0.2	2.841
MAR	1	14.100	182.0	1.0		14.100	373.0	5.7		80.370	5.9	0.2	3.243
APR	1	16.558	89.0	ND		ND	150.0	7.7		127.497	5.8	0.2	2.815
MAY	1	12.606	151.0	5.7		71.854	103.0	13.9		175.223	6.7	0.9	11.724
JUN	1	12.544	198.0	1.4		17.562	250.0	3.6		45.158	111.1	0.8	10.035
JUL	1	14.929	159.0	1.7		25.379	76.0	5.2		77.631	5.1	1.0	15.377
AUG	1	13.322	167.0	1.1		14.654	267.0	5.0		66.610	8.6	0.5	6.261
SEP	1	12.429	89.0	6.2		77.060	126.0	5.6		69.602	4.8	0.5	5.842
OCT	1	12.000	153.0	2.3		27.600	151.0	4.7		56.400	6.5	0.5	5.400
NOV	1	12.884	220.0	2.1		27.056	207.0	3.8		48.959	5.3	0.2	2.061
DEC	1	ND	ND	2.0		ND	ND ND	5.6		ND	ND	0.5	ND
	1		<u> </u>				<u> </u>				<u> </u>		
AVERA	GE:	13.517	156.0	2.9		39.619	1 177.0	6.5		89.940	6.6	0.5	6.723
OBSER EXCEE		ONS:11 ES	] 11 ]	11			] 11 	12			j 11	12	
NO OF			28	28			I 29	31			1 30	31	

COMPLIANCE :

CRITERIA :

NOTE :

BOD - YES SS - YES BOD - 25 mg/l

TP - 1.0 mg/l

SS - 25 mg/l

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

\* - EXCEEDS EFFLUENT CRITERIA

ND - NO DATA

ANTICIPATED

REMEDIAL MEASURES

TP - YES

START DATE END DATE

COMPLIANCE

MUNICIPALITY : OAKVILLE

PLANT : SOUTH WEST WPCP

WORKS NUMBER : 120001005

TREATMENT : CONVENTIONAL ACTIVATED SLUDGE

PHOSPHORUS REMOVAL - CONTINUOUS

REGION

: CENTRAL

DISTRICT

: HALTON PEEL

OPERATING AUTHORITY : MUNICIPAL

WATERCOURSE MAJOR BASIN : LAKE ONTARIO

: GREAT LAKES

MINOR BASIN

: LAKE ONTARIO

47.73 1000 m3

DESIGN CAPACITY : POPULATION SERVED: 58200 IJC DESIGNATION

: DIRECT

1987	AVG DAY	I	5 DA	Y BOD		I	SUSPEN	DED SOLI	DS	1 1	TOTAL PHO	SPHORUS
	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	   36.400	1 135.0	5.9		214.760	   129.0	10.0		364.000	5.4	0.4	14.560
FEB	34.100	253.0	5.0		170.500	267.0	0.8		27.280	11.5	0.6	19.437
MAR	39.300	228.0	8.0		314.400	169.0	12.3		483.390	8.6	0.5	21.222
APR	50.000	231.0	10.8		540.000	275.0	14.4		720.000	12.4	0.5	27.000
MAY	32.300	213.0	12.1		390.830	129.0	12.6		406.980	12.7	1.6 *	51.680
JUN	32.800	200.0	12.0		393.600	152.0	12.4		406.720	12.7	1.0	31.81
JUL	38.500	145.0	12.6		485.100	92.0	8.0		308.000	9.1	1.0	38.50
AUG	35.300	192.0	15.0		529.500	198.0	9.3		328.290	14.2	0.7	24.71
SEP	35.400	222.0	15.2		538.080	242.0	7.8		276.120	7.8	0.9	31.86
OCT	32.900	445.0	14.4		473.760	552.0	8.8		289.520	7.4	0.5	16.45
NOV	36.200	218.0	14.3		517.660	244.0	5.4		195.480	6.6	0.5	17.01
DEC	39.300	194.0	11.5		451.950	265.0	13.8		542.340	5.4	0.5	18.07
	<u> </u>	1				<del> </del>	·			<del> </del>		
AVERA	GE: 36.875	223.0	11.4		418.345	226.0	9.6		362.343	9.5	0.7	26.02
OBSER	VATIONS:12	12	12			12	12			12	12	
EXCEE	DANCES	I				1				I	1	
NO OF	SAMPLES	45	39			45	40			45	47	

COMPLIANCE :

CRITERIA :

NOTE :

BOD - YES SS - YES

BOD - 25 mg/l SS - 25 mg/l

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS. \* - EXCEEDS EFFLUENT CRITERIA

TP - NO TP - 1.0 mg/l ND - NO DATA

ANTICIPATED

REMEDIAL MEASURES

START DATE END DATE

COMPLIANCE

MUNICIPALITY : OMEMEE REGION : CENTRAL
PLANT : OMEMEE LAGOON DISTRICY : PETERBOROUGH

WORKS NUMBER: 110001630 OPERATING AUTHORITY: MINISTRY

TREATMENT : LAGOON AND SPRAY WATERCOURSE : NO DISC.TO SURFACE WATER

NO DISCHARGE MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ONTARIO

7 : 0.61 1000 m3 IJC DESIGNATION : INDIRECT

DESIGN CAPACITY: 0.61 1000 m3 IJC DESIGNATIO

POPULATION SERVED : 653

1987	AVG DAY	I	5 DA	Y BOD		1	SUSPEN	DED SOLI	DS	1	TOTAL PHO	SPHORUS
	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	l 0.260	l l 144.0	ND		ND	1 154.0	ND		ND	6.9	ND	ND
FEB	0.202	241.0	ND		ND	148.0	ND		ND	7.5	ND	ND
MAR	0.472	483.0	ND		ND	378.0	ND		ND	5.5	ND	ND
APR	0.465	109.0	ND		ND	61.0	ND		ND	5.7	ND	ND
MAY	0.219	192.0	ND		ND	132.0	ND		ND	8.6	ND	ND
JUN	0.204	131.0	ND		ND	143.0	ND		ND	8.9	ND	ND
JUL	0.197	263.0	ND		ND	136.0	ND		ND	9.2	ND	ND
AUG	0.176	135.0	ND		ND	168.0	ND		ND	9.9	ND	ND
SEP	0.181	624.0	ND		ND	472.0	ND		ND	17.6	ND	ND
OCT	0.232	307.0	ND		ND	278.0	ND		ND	14.7	ND	ND
NOV	0.245	107.0	ND		ND	109.0	ND		ND	4.0	ND	ND
DEC	0.366	107.0	ND		ND	140.0	ND		ND	4.8	ND	ND
	<u> </u>	<del> </del>				i I				<del>}                                    </del>		
AVERA	GE: 0.268	237.0	0.0		0.000	193.0	0.0		0.000	8.6	0.0	0.000
	VATIONS:12 DANCES	12	0			12	0			12	0	
	SAMPLES	1 12	0			1 12	0			12	0	

COMPLIANCE : CRITERIA : NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

BOD - NO DISCHARGE BOD - 30 mg/l TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - NO DISCHARGE SS - 40 mg/l \* - EXCEEDS EFFLUENT CRITERIA

TP - NO DISCHARGE TP - NONE ND - NO DATA

ANTICIPATED

REMEDIAL MEASURES START DATE END DATE COMPLIANCE

MUNICIPALITY : ORILLIA

PLANT : ORILLIA WPCP

WORKS NUMBER : 120000569

TREATMENT : CONVENTIONAL ACTIVATED SLUDGE

PHOSPHORUS REMOVAL-CONTINUOUS

REGION

: CENTRAL

DISTRICT : BARRIE

OPERATING AUTHORITY : MUNICIPAL

WATERCOURSE

: LAKE SIMCOE

MAJOR BASIN

: GREAT LAKES

MINOR BASIN

: LAKE HURON

DESIGN CAPACITY :

18.18 1000 m3

POPULATION SERVED : 24000

IJC DESIGNATION : INDIRECT

										7-1-2		
1987	AVG DAY		5 DAY	Y BOD			SUSPEN	DED SOLI	DS		TOTAL PHO	SPHORUS
	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	15.744	88.0	16.5		259.776	   168.0	6.3		99.187	1 3 8	0.2	2.834
FEB	14.733	1 236.0	6.2		91.345	1 175.0	7.6		111.971	AS rin con	0.2	2.652
MAR	26.321	66.0	9.6		252.682		9.2		242.153	Vision res	0.2	5.264
APR	25.819	85.0	5.4		139.423	•	9.2		237.535	2.8	0.2	4.389
MAY	16.589	166.0	16.9		280.354	193.0	7.6		126.076	3.0	0.2	2.986
JUN	16.420	156.0	4.1		67.322	168.0	6.4		105.088	3.4	0.2	2.956
JUL	16.585	149.0	5.6		92.876	163.0	10.9		180.777	3.8	0.2	3.317
AUG	15.273	206.0	11.1		169.530	197.0	12.8		195.494	5.2	0.3	4.887
SEP	14.712	166.0	13.2		194.198	186.0	9.2		135.350	4.7	0.3	4.119
OCT	15.363	162.0	1.0		15.363	173.0	10.7		164.384	4.2	0.2	3.226
NOV	19.504	135.0	8.7		169.685	151.0	10.4		202.842	3.8	0.2	2.926
DEC	22.330	85.0	7.5		167.475	166.0	7.3		163.009	4.3	0.3	7.146
	<u> </u>	! 				<u> </u>				<del> </del>		
AVERA	GE: 18.283	142.0	8.8		158.336	166.0	9.0		163.655	3.8	0.2	3.892
	VATIONS:12	12 	12			12	12			12	12	
A 102	SAMPLES	28	41			177	170			102	96	

COMPLIANCE :

CRITERIA :

NOTE :

BOD - YES SS - YES

TP - YES

BOD - 25 mg/l

SS - 25 mg/l TP - 1.0 mg/l

TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

\* - EXCEEDS EFFLUENT CRITERIA

ND - NO DATA

ANTICIPATED

REMEDIAL MEASURES

START DATE END DATE

COMPLIANCE

MUNICIPALITY : OSHAWA

PLANT : HARMONY CR WPCP NO 2

WORKS NUMBER: 120001657

TREATMENT : CONVENTIONAL ACTIVATED SLUDGE

PHOSPHORUS REMOVAL - CONTINUOUS

REGION

: CENTRAL

DISTRICT

: YORK DURHAM

OPERATING AUTHORITY : MUNICIPAL

WATERCOURSE

MAJOR BASIN

: GREAT LAKES : LAKE ONTARIO

MINOR BASIN

DESIGN CAPACITY : 34.09 1000 m3

POPULATION SERVED : 51469

IJC DESIGNATION : DIRECT

				-	
	Т		-	$\top$	
				•	
1987	1	AVG	DAY	- 1	

	ı		1				1				l		
1987	A	VG DAY	1	5 DA	Y BOD		ı	SUSPEN	DED SOLI	DS	1 1	TOTAL PHO	SPHORUS
	1	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(10	00 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	l l	27.269	126.0	ND		ND	1 140.0	ND		ND	6.4	ND	ND
FEB	ĺ	24.327	196.0	ND		ND	153.0	ND		ND	7.1	ND	ND
MAR	İ	26.201	154.0	ND		ND	194.0	ND		ND	6.1	ND	ND
APR	i	33.612	265.0	ND		ND	852.0	ND		ND	5.5	ND	ND
MAY	ĺ	24.917	206.0	ND		ND	155.0	ND		ND	8.0	ND	ND
JUN	ĺ	28.952	157.0	ND		ND	168.0	ND		ND	6.5	ND	ND
JUL	1	24.947	219.0	ND		ND	140.0	ND		ND	8.0	ND	ND
AUG	1	21.085	153.0	ND		ND	188.0	ND		ND	8.0	ND	ND
SEP	1	24.678	143.0	ND		ND	110.0	ND		ND	6.8	ND	ND
OCT	1	24.336	167.0	ND		ND	64.0	ND		ND	7.0	ND	ND
NOV	1	29.421	88.0	ND		ND	96.0	ND		ND	5.3	ND	ND
DEC	1	34.222	144.0	ND		ND	125.0 	ND		ND	5.5	ND	ND
AVERA	GE:	26.997	   168.0	0.0		0.000	1 199.0	0.0		0.000	1 6.7	0.0	0.000
		DNS:12	1 12	0		0.000	1 12	0.0		0.000	1 12		0.000
EXCEE	T. O. P. S. S. S.		"	Ū			12	U			12	0	
NO OF	SAM	PLES	12	0			1 12	0			88	0	

COMPLIANCE : CRITERIA :

NOTE :

BOD - NO DATA SS - NO DATA

BOD - 25 mg/l SS - 25 mg/l

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

\* - EXCEEDS EFFLUENT CRITERIA

TP - NO DATA

TP - 1.0 mg/l

ND - NO DATA

ANTICIPATED

REMEDIAL MEASURES

START DATE END DATE

COMPLIANCE

MUNICIPALITY : OSHAWA

PLANT : HARMONY CREEK 1&2 COMBINED EFFLUENT

REGION : CENTRAL DISTRICT : YORK DURHAM

WORKS NUMBER : 120003254

TREATMENT : CONVENTIONAL ACTIVATED SLUDGE

WATERCOURSE

OPERATING AUTHORITY : MUNICIPAL

TRICKLING FILTER

: L ONT.(COMBINED EFF.1&2)

PHOSPHORUS REMOVAL - CONTINUOUS

MAJOR BASIN MINOR BASIN

: GREAT LAKES : LAKE ONTARIO

DESIGN CAPACITY : 0.00 1000 m3

IJC DESIGNATION : DIRECT

DODUL ATTOM CERVER .

POPUL	ATION SERV	/ED	:	0							r		
1987	AVG DAY	1	1	5 DA	Y BOD		I I	SUSPEN	IDED SOLI	DS		TOTAL P	HOSPHORUS
	FLOW		INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3)	/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	   56.39	97	i ND	31.3		1765.226	i ND	17.9		1009.506	ND	0.9	47.937
FEB	53.15	57	ND	17.5		930.247	ND	20.4		1084.403	ND	1.0	54.220
MAR	61.00	63	ND	17.0		1038.071	ND	29.0		1770.827	ND	0.9	56.178
APR	67.8	10	ND	14.6		990.026	ND	19.5		1322.295	ND	1.0	66.454
MAY	52.10	60	ND	16.8		876.288	ND	20.4		1064.064	ND	0.9	45.901
JUN	52.3	82	ND	11.2		586.678	ND	23.8		1246.692	ND	0.9	45.572
JUL	46.5	13	ND	16.0		744.208	ND	16.5		767.464	ND	0.7	31.629
AUG	42.5	07	ND	11.9		505.833	ND	16.2		688.613	ND	0.8	33.581
SEP	49.6	60	ND	13.3		660.478	ND	18.1		898.846	ND	0.9	45.191
OCT	46.3	77	ND	14.0		649.278	ND.	18.4		853.337	ND	0.9	41.739
NOV	55.10	60	ND	13.5		744.660	ND ND	16.5		910.140	ND	0.7	40.267
DEC	62.5	40	ND	16.2		1013.148	ND	20.1		1257.054	ND	0.8	51.908
	1		1				İ				İ		
AVEDA	GE: 53.8	10	   0.0	16.1		875.345	1 0.0	19.7		1072.770	1 0.0	0.9	46.715
N seguments	VATIONS: 1		1 0.0	12		0,7.347	1 0.0	12		1012.110	1 0.0	12	40.713
	DANCES	_	1	12				12				12	
NO OF	SAMPLES		0	36			0	637			0	552	

COMPLIANCE :

CRITERIA :

NOTE :

BOD - YES

BOD - 25 mg/l

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - YES

SS - 25 mg/l

\* - EXCEEDS EFFLUENT CRITERIA

TP - YES

TP - 1.0 mg/l

ND - NO DATA

ANTICIPATED

REMEDIAL MEASURES

START DATE END DATE

COMPLIANCE

MUNICIPALITY : OSHAWA

PLANT : HARMONY CR WPCP NO 1

WORKS NUMBER : 120000774

TREATMENT : TRICKLING FILTER

PHOSPHORUS REMOVAL - CONTINUOUS

DISTRICT CENTRAL : YORK DURHAM

OPERATING AUTHORITY : MUNICIPAL

WATERCOURSE

MAJOR BASIN

: GREAT LAKES

MINOR BASIN : LAKE ONTARIO

IJC DESIGNATION : DIRECT

DESIGN CAPACITY : 34.09 1000 m3

POPULATION SERVED: 102938

1987	AV	G DAY	1		5 DA	Y BOD		l	SUSPEN	DED SOLI	DS	] 1	TOTAL	PHOSPHORUS
	F	LOW	1	NF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(100	00 m3/d)	(п	ng/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L	) (kg/d)
JAN	l	29.128	 	74.0	ND		ND	98.0	ND		ND	5.6	ND	ND
FEB	Ī	28.830	1	13.0	ND		ND	174.0	ND		ND	6.3	ND	ND
MAR		32.412	1	125.0	ND		ND	192.0	ND		ND	6.0	ND	ND
APR	1	34.201	1	91.0	ND		ND	66.0	ND		ND	6.1	ND	ND
MAY	1	27.243	1	177.0	ND		ND	136.0	ND		ND	7.2	ND	ND
JUN	1	25.103	2	287.0	ND		ND	223.0	ND		ND	4.0	ND	ND
JUL	1	21.566	1	39.0	ND		ND	273.0	ND		ND	5.1	ND	ND
AUG	1	21.422	3	328.0	ND		ND	237.0	ND		ND	5.3	ND	ND
SEP	1	24.982	1	101.0	ND		ND	90.0	ND		ND	5.8	ND	ND
OCT	1	22.041	1	105.0	ND		ND	172.0	ND		ND	5.5	ND	ND
NOV		25.738	1	85.0	ND		ND	122.0	ND		ND	4.0	ND	ND
DEC	!	28.319	1	183.0	ND		ND	140.0	ND		ND	5.8	ND	ND
	!		<u> </u>					<u> </u>	-			<u> </u>		
AVERA	GE:	26.749	j 1	151.0	0.0		0.000	160.0	0.0		0.000	5.6	0,0	0.000
OBSER EXCEE		NS:12	1	12	0			12 	0			12 	0	
NO OF	SAMP	LES	1	12	0			12	0			12	0	

COMPLIANCE : CRITERIA :

NOTE :

BOD - NO DATA SS - NO DATA

TP - NO DATA

BOD - 25 mg/l

SS - 25 mg/l TP - 1.0 mg/l

TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS. \* - EXCEEDS EFFLUENT CRITERIA

ND - NO DATA

ANTICIPATED

REMEDIAL MEASURES

START DATE END DATE COMPLIANCE

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

MUNICIPALITY : PENETANGUISHENE

PLANT : FOX ST.WPCP IN OP.1987 WORKS NUMBER : 120001960

TREATMENT : CONTACT STABILIZATION

PHOSPHORUS REMOVAL-CONTINUOUS

REGION

: CENTRAL

DISTRICT

: BARRIE

OPERATING AUTHORITY : MUNICIPAL

WATERCOURSE

: PENETANGUISHENE HARBOUR

MAJOR BASIN MINOR BASIN

: GREAT LAKES : LAKE HURON

DESIGN CAPACITY :

1.50 1000 m3

POPULATION SERVED : 1000 IJC DESIGNATION : DIRECT

 	02.1122	•	
 		1	
1			

1987	i A	VG DAY	İ	5 DA	Y BOD		Î	SUSPEN	DED SOLI	DS	i .	TOTAL PHO	SPHORUS
	Ĺ	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(10	00 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)		(kg/d)
JAN	1	0.846	   76.0	2.0		1.692	   120.0	7.1		6.007	1 4.3	0.3	0.288
FEB	ì	0.863	62.0	2.7			99.0	8.3		7.163	3.8	0.3	0.293
MAR	ì	1.115	104.0	9.2		10.258	135.0	7.7		8.585		0.4	0.390
APR	1	0.997	61.0	1.9		1.894	121.0	7.7		7.677	3.5	0.2	0.239
MAY	ĺ	0.852	81.0	6.1		5.197	153.0	14.6		12.439	5.0	0.4	0.341
JUN	1	0.936	101.0	3.4		3.182	163.0	13.2		12.355	5.4	0.4	0.365
JUL	I	0.971	181.0	2.2		2.136	139.0	9.1		8.836	5.3	0.3	0.311
AUG	1	0.897	73.0	1.5		1.346	130.0	9.4		8.432	4.4	0.8	0.673
SEP	I	0.838	129.0	3.0		2.514	185.0	6.4		5.363	12.0	0.8	0.662
OCT	1	0.900	131.0	3.4		3.060	102.0	12.8		11.520	6.0	0.9	0.819
NOV	1	1.009	111.0	2.3		2.321	144.0	9.5		9.585	13.6	0.5	0.515
DEC	1	1.033	81.0	3.0		3.099	156.0	4.8		4.958	10.1	0.4	0.424
	1		ļ				<u> </u>				1		
AVERA	AGE:	0.938	99.0	3.4		3.252	1 137.0	9.2		8.577	   6.5	0.5	0.443
		ONS:12	12	12			12	12			12	12	
NO OF			   12	12			   12	12			   12	12	
			ì				i				1	-	

COMPLIANCE :

CRITERIA :

NOTE :

BOD - YES SS - YES BOD - 25 mg/l

TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS. \* - EXCEEDS EFFLUENT CRITERIA

TP - YES

SS - 25 mg/l TP - 1.0 mg/l

ND - NO DATA

ANTICIPATED

REMEDIAL MEASURES

START DATE END DATE

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

COMPLIANCE

MUNICIPALITY : PENETANGUISHENE

PLANT : PENETANGUISHENE WPCP

WORKS NUMBER: 120000541

TREATMENT : CONTACT STABILIZATION

PHOSPHORUS REMOVAL - CONTINUOUS

REGION

: CENTRAL

DISTRICT

: BARRIE

OPERATING AUTHORITY : MUNICIPAL WATERCOURSE

: PENETANG BAY : GREAT LAKES

MAJOR BASIN MINOR BASIN

: LAKE HURON IJC DESIGNATION : DIRECT

POPULATION SERVED: 4300

DESIGN CAPACITY : 3.00 1000 m3

1987	AVG DAY	1	5 DA	Y BOD		1	SUSPEN	DED SOLI	DS	1 1	TOTAL PHO	SPHORUS
	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d
JAN	2.654	1 182.0	14.1		37.421	   195.0	3.0		7.962	   2.8	0.3	0.796
FEB	2.654	117.0	5.9		15.659	119.0	2.0		5.308	1 4.4	0.5	1.194
MAR	3.880	44.0	8.0		31.040	60.0	7.9		30.652	2.0	0.4	1.59
APR	3.427	20.0	5.3		18.163	37.0	9.1		31.186	1.0	0.4	1.439
MAY	2.838	87.0	9.9		28.096	192.0	13.1		37.178	3.3	0.8	2.12
JUN	3.650	99.0	7.4		27.010	126.0	3.8		13.870	1.4	0.6	2.30
JUL	3.021	122.0	6.2		18.730	104.0	2.2		6.646	4.1	0.4	1.32
AUG	2.890	88.0	2.6		7.514	138.0	1.3		3.757	4.2	0.7	1.87
SEP	ND	ND	ND		ND	ND	ND		ND	ND	ND	ND
OCT	2.958	90.0	6.0		17.748	84.0	2.9		8.578	4.0	0.7	2.07
NOV	3.332	89.0	1.4		4.665	111.0	1.8		5.998	6.5	0.2	0.50
DEC	3.220	67.0	4.2		13.524	102.0	2.3		7.406	3.8	0.5	1.57
	<u> </u>	<u> </u>				1				1		
AVERA	GE: 3.139	91.0	6.5		19.961	   115.0	4.5		14.413	l I 3.4	0.5	1.52
	VATIONS:11	11 	11			11	11			111	11	
	SAMPLES	1 11	21			1 11	21			   11	21	

COMPLIANCE :

CRITERIA :

NOTE :

BOD - YES

BOD - 25 mg/l SS - 25 mg/l

TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS. \* - EXCEEDS EFFLUENT CRITERIA

SS - YES TP - YES

TP - 1.0 mg/l

ND - NO DATA

ANTICIPATED

REMEDIAL MEASURES

START DATE END DATE

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

COMPLIANCE

MUNICIPALITY : PERCY : CENTRAL

DISTRICT PLANT : WARKWORTH LAGOON : PETERBOROUGH

WORKS NUMBER : 120001933 OPERATING AUTHORITY : MUNICIPAL TREATMENT : CONVENTIONAL LAGOON SEASONAL WATERCOURSE : MILL CREEK

MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ONTARIO

IJC DESIGNATION : INDIRECT DESIGN CAPACITY : 0.00 1000 m3

POPULATION SERVED : 600

		26/2/2000/4032	1										
1987	AVO	DAY	i	5 DA	Y BOD		i	SUSPEN	IDED SOLI	DS		TOTAL PHO	SPHORUS
	FL	.OW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
N-15	(1000	m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d
JAN	1	0.263	ND	ND			ND	ND			ND	ND	
FEB	1	0.229	ND	ND			ND	ND			ND	ND	
MAR	1	0.323	ND	ND			ND	ND			ND	ND	
APR	l	0.363	42.0	10.7			22.0	71.4			1.4	0.2	
MAY	Ĩ	0.246	ND	11.0			ND	72.0			ND	0.2	
JUN	l	0.216	ND	ND			ND	ND			ND	ND	
JUL	ĺ	0.191	ND	ND			ND	ND			ND	ND	
AUG	1	0.191	ND	ND			ND	ND			ND	ND	
SEP	1	0.192	81.0	ND			71.0	ND			8.5	ND	
OCT	1	0.237	ND	ND			ND	ND			ND	ND	
NOV	1	0.235	ND	ND			ND	ND			ND	ND	
DEC	l I	0.267	ND	ND			ND	ND			ND	ND	
AVERA	GE:	0.246	62.0	10.9		3.295	46.0	71.7 *	20 F3	21.815	5.0	0.2	0.05
	VATIO		2	2			2	2			2	2	
	DANCES SAMPL		2	4			2	4			2	4	
			1				I				Ì		

COMPLIANCE : CRITERIA : NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

BOD - YES BOD - 30 mg/l TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

\* - EXCEEDS EFFLUENT CRITERIA SS - NO SS - 40 mg/l

TP - NONE TP - YES ND - NO DATA

ANTICIPATED

REMEDIAL MEASURES START DATE END DATE COMPLIANCE

MUNICIPALITY : PETERBOROUGH

PLANT : PETERBOROUGH WPCP

WORKS NUMBER : 120000676

TREATMENT : CONVENTIONAL ACTIVATED SLUDGE

PHOSPHORUS REMOVAL - CONTINUOUS

REGION

: CENTRAL

DISTRICT

: PETERBOROUGH

OPERATING AUTHORITY : MUNICIPAL

WATERCOURSE

: OTONABEE RIVER

MAJOR BASIN

: GREAT LAKES

MINOR BASIN

: LAKE ONTARIO

DESIGN CAPACITY : 68.19 1000 m3

POPULATION SERVED: 61063

IJC DESIGNATION : INDIRECT

	$\neg \tau$						T				T		
198	7	AVG DAY	i	5 DA	Y BOD		İ	SUSPEN	DED SOLI	DS	1	TOTAL PHO	SPHORUS
1	- 1	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
		(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
   JAN		49.180	l l 105.0	10.7		526.226	   119.0	4.3		211.474	1 4.5	1.0	49.180
FEB	i	45.090	115.0	12.9		581.661	129.0	6.2		279.558	5 65	1.0	45.090
MAR	i	61.250	91.0	15.9		973.875	93.0	6.2		379.750	■ RESECTED	1.0	61.250
APR	- 1	71.280	83.0	13.6		969.408	112.0	7.0		498.960	3.6	0.9	64.152
MAY	-1	50.480	103.0	12.3		620.904	109.0	7.0		353.360	4.5	1.0	50.480
JUN	- 1	46.240	110.0	5.3		245.072	131.0	6.0		277.440	1 4.4	1.1 *	50.864
JUL	- 1	45.750	86.0	5.6		256.200	122.0	5.0		228.750	4.3	1.4 *	64.050
AUG	- 1	45.460	97.0	4.2		190.932	119.0	6.0		272.760	4.6	1.5 *	68.190
SEP	- 1	45.420	97.0	7.0		317.940	115.0	5.0		227.100	4.7	1.0	45.420
OCT	- 1	44.550	122.0	8.4		374.220	145.0	11.0		490.050	4.6	0.8	35.640
NOV	- 1	48.930	99.0	11.7		572.481	117.0	5.0		244.650	4.9	0.9	44.037
DEC		55.820	101.0 	11.3		630.766	107.0 	6.0		334.920	4.3	0.9	50.238
AVE	RAG	E: 50.788	T   101.0	9.9		521.640	   118.0	6.2		316.564	1 4.4	1.0	52.383
E -10,120,000		ATIONS:12	1 12	12		321.040	1 12	12		310.304	1 12	12	22.303
• 55-500		ANCES	i	1/1/2000			i				1	3	
NO (	OF	SAMPLES	39	39			39	39			219	219	
			ĺ				i				1	=11175	

COMPLIANCE :

CRITERIA :

NOTE :

BOD - YES BOD - 25 mg/l SS - YES SS - 25 mg/l

TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS. \* - EXCEEDS EFFLUENT CRITERIA

TP - NO TP - 1.0 mg/l ND - NO DATA

REMEDIAL MEASURES

START DATE END DATE

ANTICIPATED COMPLIANCE

EXISTING EQUIPMENT/OPERATION IS BEING MODIFIED

87/08/01

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

87/08/31

87/09/30

MUNICIPALITY : PICKERING

REGION : CENTRAL

PLANT : DUFFIN CREEK WPCP (YORK-DURHAM)

DISTRICT

: YORK DURHAM

WORKS NUMBER: 120001915

OPERATING AUTHORITY : MUNICIPAL

TREATMENT : CONVENTIONAL ACTIVATED SLUDGE

WATERCOURSE

: LAKE ONTARIO

PHOSPHORUS REMOVAL - CONTINUOUS

MAJOR BASIN MINOR BASIN

: GREAT LAKES : LAKE ONTARIO

DESIGN CAPACITY : 181.84 1000 m3

IJC DESIGNATION : DIRECT

POPULATION SERVED: 64386

	r	SERVED	: 6430										
1987	AVO	DAY	i	5 DA	Y BOD			SUSPEN	DED SOLI	DS	ļ .	TOTAL PH	OSPHORUS
	Fl	.OW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000	m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	1   16	51.960	1 161.0	27.0		4372.920	   247.0	11.0		1781.560	1 4.1	0.6	95.556
FEB	15	7.010	164.0	6.0		942.060	282.0	9.0		1413.090	5.3	0.6	87.926
MAR	18	35.350	156.0	20.0		3707.000	220.0	11.0		2038.850	7.0	0.5	88.968
APR	19	95.940	109.0	18.0		3526.920	214.0	14.0		2743.160	6.2	0.4	68.579
MAY	16	52.790	203.0	24.0		3906.960	232.0	27.0		4395.330	7.0	0.8	126.976
JUN	17	72.030	184.0	29.0		4988.870	273.0	8.7		1496.661	7.2	0.6	106.659
JUL	17	75.220	183.0	18.5		3241.570	330.0	14.7		2575.734	7.8	0.6	98.12
AUG	1 10	66.970	159.0	23.6		3940.492	358.0	18.3		3055.551	8.4	0.8	131.90
SEP	17	73.520	237.0	24.7		4285.944	281.0	11.4		1978.128	7.2	0.9	152.69
OCT	10	8.410	159.0	15.3		2576.673	211.0	10.5		1768.305	6.4	0.6	95.99
NOV	18	38.000	156.0	14.5		2726.000	155.0	8.6		1616.800	6.9	0.6	112.800
DEC	20 	05.400	123.0 	16.7		3430.180	159.0 	16.5		3389.100	5.5 	0.8	154.050
AVERA	GE: 17	76.050	166.0	19.8		3470.466	247.0	13.4		2354.356	6.6	0.6	110.020
OBSER!			12 	12			12 	12			12	12	
NO OF	SAMPL	.ES	138	75			631	333			302	226	

COMPLIANCE :

CRITERIA :

NOTE :

BOD - YES SS - YES BOD - 25 mg/l

SS - 25 mg/l

TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS. \* - EXCEEDS EFFLUENT CRITERIA

TP - YES

TP - 1.0 mg/l

ND - NO DATA

ANTICIPATED

REMEDIAL MEASURES

START DATE END DATE

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

COMPLIANCE

MUNICIPALITY : PORT HOPE REGION : CENTRAL

PLANT : PORT HOPE WPCP DISTRICT : PETERBOROUGH
WORKS NUMBER : 120000079 OPERATING AUTHORITY : MUNICIPAL
TREATMENT : HIGH RATE WATERCOURSE : LAKE ONTARIO
PHOSPHORUS REMOVAL-CONTINUOUS MAJOR BASIN : GREAT LAKES

MINOR BASIN : LAKE ONTARIO

DESIGN CAPACITY : 9.09 1000 m3 IJC DESIGNATION : DIRECT

POPULATION SERVED : 10274

1987	AVG DAY	1	5 DA	Y BOD		1	SUSPEN	DED SOLI	DS	1	OTAL PHO	SPHORUS
	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d
JAN	   5.101	1 110.0	16.5		84.166	66.0	10.7		54.581	   2.4	0.7	3.673
FEB	4.909	151.0	16.2		79.526	92.0	8.5		41.727	2.9	0.9	4.320
MAR	6.678	166.0	13.8		92.156	89.0	8.6		57.431	2.5	0.7	4.60
APR	8.278	155.0	14.8		122.514	58.0	4.5		37.251	2.0	0.6	5.050
MAY	4.805	149.0	12.6		60.543	61.0	5.3		25.466	2.7	0.6	2.69
JUN	5.442	116.0	5.4		29.387	103.0	4.2		22.856	2.5	0.5	2.61
JUL	4.451	188.0	4.6		20.475	77.0	2.7		12.018	2.1	0.9	3.91
AUG	3.428	186.0	6.6		22.625	89.0	3.0		10.284	1.7	0.7	2.53
SEP	4.278	139.0	7.7		32.941	90.0	4.0		17.112	2.7	0.8	3.25
OCT	4.327	211.0	7.3		31.587	106.0	10.2		44.135	4.6	0.9	4.02
NOV	5.764	210.0	13.2		76.085	87.0	5.1		29.396	4.3	0.4	2.536
DEC	7.480 	172.0 	13.3		99.484	96.0	5.8		43.384	2.3	0.5	3.44
AVERA	GE: 5.412	163.0	11.0		62.624	84.0	6.1		32.970	2.7	0.7	3.55
	VATIONS:12 DANCES	12 	12			12	12			12 	12	
NO OF	SAMPLES	58	54			58	55			57	57	

COMPLIANCE : CRITERIA : NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
BOD - YES BOD - 25 mg/L TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS

BOD - YES BOD - 25 mg/l TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - YES SS - 25 mg/l \* - EXCEEDS EFFLUENT CRITERIA

TP - YES TP - 1.0 mg/L ND - NO DATA

REMEDIAL MEASURES ANTICIPATED

START DATE END DATE COMPLIANCE

MUNICIPALITY : PORT MCNICOLL

PLANT : PORT MCNICOLL WPCP

WORKS NUMBER : 110001417

TREATMENT : CONTACT STABILIZATION

PHOSPHORUS REMOVAL - CONTINUOUS

: CENTRAL REGION DISTRICT : BARRIE

OPERATING AUTHORITY : MINISTRY

WATERCOURSE

: GEORGIAN BAY

MAJOR BASIN

: GREAT LAKES

MINOR BASIN

: LAKE HURON

DESIGN CAPACITY : 1.04 1000 m3

POPULATION SERVED :

1400

IJC DESIGNATION

: DIRECT

1	1987	I AVG DAY	I 5 DAY BOD				l	SUSDEN	DED SOLI	TOTAL PHOSPHORUS			
1	1707	FLOW	IINF	EFF	1 500	LOAD	I INF	EFF	DED SOLI	LOAD	INF	EFF	LOAD
i		(1000 m3/d)		(mg/L)	(%REM)		(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)		(kg/d)
1		T	T				Ι				Ι		
1	JAN	0.599	132.0	12.8		7.667	195.0	10.5		6.289	8.2	0.9	0.557
1	FEB	0.501	105.0	16.6		8.317	56.0	9.5		4.760	3.9	0.8	0.376
11	MAR	1.283	78.0	20.2		25.917	36.0	12.5		16.037	2.0	0.6	0.744
1	APR	1.029	65.0	7.2		7.409	123.0	8.0		8.232	4.5	0.3	0.257
1.	MAY	0.529	160.0	9.4		4.973	170.0	7.4		3.915	7.3	0.6	0.307
1	JUN	0.445	271.0	3.1		1.380	254.0	1.8		0.801	7.2	0.3	0.134
1	JUL	0.461	148.0	9.2		4.241	172.0	9.8		4.518	8.5	0.6	0.254
١	AUG	0.421	126.0	4.0		1.684	102.0	4.4		1.852	7.5	0.6	0.236
1	SEP	0.387	148.0	2.9		1.122	173.0	4.5		1.742	7.6	0.5	0.190
1	OCT	0.423	182.0	6.0		2.538	132.0	10.0		4.230	8.6	0.9	0.360
1	NOV	0.712	97.0	3.2		2.278	101.0	7.7		5.482	8.8	0.4	0.285
1	DEC	1.041	70.0	11.7		12.180	74.0	12.4		12.908	3.8	0.7	0.770
!_		1	1								1		
1	AVERAGE: 0.653		132.0	8.9		6.642	   132.0	8.2		5.897	l l 6.5	0.6	0.373
i	OBSERVATIONS:12		1 12	12			1 12	12		D 5850AV	1 12	12	1
i	EXCEE	DANCES	i				1	**************************************			ì	0.75	Î
i	NO OF SAMPLES		19	18			19	18			19	19	i
Ì			İ				İ				i		

COMPLIANCE : CRITERIA : NOTE :

> BOD - YES BOD - 25 mg/l

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - YES SS - 25 mg/l \* - EXCEEDS EFFLUENT CRITERIA

TP - YES TP - 1.0 mg/l ND - NO DATA

ANTICIPATED

REMEDIAL MEASURES START DATE END DATE COMPLIANCE

MUNICIPALITY : SCUGOG PLANT : NONQUON RIVER LAGOON (PORT PERRY)

REGION : CENTRAL

DISTRICT : YORK DURHAM

WORKS NUMBER : 110001257

OPERATING AUTHORITY : MUNICIPAL

TREATMENT : CONVENTIONAL LAGOON SEASONAL

WATERCOURSE : LAKE SCUGOG MAJOR BASIN

PHOSPHORUS REMOVAL - CONTINUOUS

: GREAT LAKES MINOR BASIN : LAKE ONTARIO

EFFLUENT CHLORINATION DESIGN CAPACITY : 3.18 1000 m3

IJC DESIGNATION : INDIRECT

POPULATION SERVED : 5215

1987	AVG DAY	1	5 DA	Y BOD		1	SUSPEN	DED SOLI	TOTAL PHOSPHORUS			
	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	2.260	214.0	ND			182.0	ND			9.5	ND	
FEB	1.822	222.0	ND			337.0	ND			23.5	ND	
MAR	2.673	151.0	ND			200.0	ND			6.8	ND	
APR	3.070	221.0	5.9			165.0	6.2			14.4	0.3	
MAY	2.007	213.0	3.9			158.0	4.5			ND	0.3	
JUN	2.358	126.0	ND			103.0	ND			8.4	ND	
JUL	2.372	102.0	ND			144.0	ND			7.4	ND	
AUG	2.086	ND	ND			ND	ND			ND	ND	
SEP	1.999	325.0	ND			30.0	ND			16.3	ND	
OCT	2.067	64.0	10.4			270.0	6.6			16.5	0.6	
NOV	2.427	118.0	15.5			169.0	11.2			6.6	0.5	
DEC	2.907 	132.0 	ND			198.0 	ND			14.2	ND	
AVERA	GE: 2.337	1 172.0	8.9		21,264	   178.0	7.1		17.223	112 4	0.4	0.969
OBSERVATIONS: 12		11	4			1 11	4			1 10	4	0.70
EXCEE	DANCES	i				i				1	72	
NO OF	SAMPLES	1 12	22			1 12	23			1 11	36	
		i				1	==				50	

COMPLIANCE :

CRITERIA :

NOTE :

BOD - YES

BOD - 30 mg/l

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS. SS - YES SS - 40 mg/l

TP - YES

\* - EXCEEDS EFFLUENT CRITERIA

TP - 1.0 mg/l ND - NO DATA

ANTICIPATED

REMEDIAL MEASURES

START DATE END DATE

COMPLIANCE

: CENTRAL MUNICIPALITY : SMITH

DISTRICT PLANT : WOODLAND ACRES WPCP : PETERBOROUGH

OPERATING AUTHORITY : MINISTRY WORKS NUMBER : 110002381

TREATMENT : EXTENDED AERATION WATERCOURSE : OTONABEE R. MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ONTARIO

IJC DESIGNATION : INDIRECT DESIGN CAPACITY : 0.36 1000 m3

POPULATION SERVED: 435

11251112513						1						
1987	AVG DAY	DAY BOD					SUSPEN	DED SOLI	TOTAL PHOSPHORUS			
	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	   0.211	30.0	0.4		0.084	   25.0	1.3		0.274	1.1	1.8	0.380
FEB	0.167	70.0	5.5		0.919	39.0	1.7		0.284	3.3	2.6	0.431
MAR	0.562	56.0	9.2		5.170	41.0	7.0		3.934	3.3	1.8	1.023
APR	0.561	20.0	1.0		0.561	27.0	1.1		0.617	1.8	1.4	0.785
MAY	0.203	66.0	0.5		0.102	17.0	1.6		0.325	1.4	1.7	0.345
JUN	0.155	20.0	1.0		0.155	26.0	1.1		0.171	1.8	1.4	0.211
JUL	0.141	30.0	1.3		0.183	22.0	2.7		0.381	2.8	2.9	0.402
AUG	0.115	32.0	1.6		0.184	22.0	1.8		0.207	2.4	2.8	0.321
SEP	0.124	61.0	1.2		0.149	42.0	7.1		0.880	3.9	3.9	0.484
OCT	0.140	64.0	1.3		0.182	49.0	7.1		0.994	4.2	4.5	0.630
NOV	0.193	19.0	3.8		0.733	87.0	15.0		2.895	1.0	1.5	0.297
DEC	0.322 	37.0 	5.4		1.739	20.0 	14.8		4.766	1.0 	1.6	0.528
AVERA	GE: 0.241	   42.0	2.7		0.847	   35.0	5.2		1.311	2.3	2.3	0.486
	VATIONS:12 DANCES	12 	12			12 	12			12 	12	
NO OF SAMPLES		1 12	12			1 12	12			1 12	12	

COMPLIANCE : CRITERIA: NOTE :

> BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS BOD - 25 mg/L

BOD - YES TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - YES SS - 25 mg/l \* - EXCEEDS EFFLUENT CRITERIA

TP - YES TP - NONE ND - NO DATA

> ANTICIPATED START DATE END DATE COMPLIANCE

NONE

REMEDIAL MEASURES

MUNICIPALITY: STAYNER REGION: CENTRAL
PLANT: STAYNER LAGOON
DISTRICT: BARRIE
WORKS NUMBER: 110000695
OPERATING AUTHORITY: MUNICIPAL

TREATMENT : AERATED CELL PLUS LAGOON

SEASONAL DISCHARGE MAJOR BASIN : GREAT LAKES
PHOSPHORUS REMOVAL - BATCH MINOR BASIN : LAKE HURON
DESIGN CAPACITY : 1.04 1000 m3 IJC DESIGNATION : INDIRECT

WATERCOURSE : LAMONT CREEK

POPULATION SERVED : 2400

1987	A	G DAY	1	5 DA	Y BOD		1	SUSPEN	DED SOLI	DS	1 1	OTAL PHO	SPHORUS
	1	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(100	00 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d
JAN		1.249	11236.0	ND			   375.0	ND			112.8	ND	
FEB	i	1.048	11497.0	ND			365.0	ND			9.5	ND	
MAR	i	1.609	877.0	ND			724.0	ND			12.2	ND	
APR	1	1.699	627.0	94.2			346.0	35.4			6.4	1.9 *	
MAY	1	1.154	259.0	ND			175.0	ND			6.5	ND	
JUN	1	1.112	494.0	ND			205.0	ND			10.8	ND	
JUL	1	1.122	861.0	ND			211.0	ND			7.9	ND	
AUG	1	1.054	191.0	8.0			229.0	14.8			9.3	0.5	
SEP	1	1.036	314.0	17.2			194.0	22.4			10.5	1.8 *	
OCT	1	1.170	639.0	ND			428.0	ND			11.6	ND	
NOV	1	1.356	628.0	95.7			150.0	31.6			9.1	1.1 *	
DEC	l I	1.740	<b>823.</b> 0	ND			183.0 	ND			6.8 	ND	
AVERA	GE:	1.279	704.0	53.8 *		79.016	299.0	26.1		35.450	9.5	1.3 *	1.752
OBSER	VATIO	NS:12	1 12	4		300000000000000000000000000000000000000	1 12	4			1 12	4	,.,,
EXCEE	DANCE	S	İ				i				i	3	
NO OF	SAME	LES	24	4			24	4			24	4	

COMPLIANCE :	CRITERIA :	NOTE :
		BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
BOD - NO	BOD - 30 mg/l	TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.
SS - YES	SS - 40 mg/l	* - EXCEEDS EFFLUENT CRITERIA

TP - NO TP - 1.0 mg/l ND - NO DATA

START DATE END DATE COMPLIANCE

FACILITY EXPANSION AND/OR UPGRADING UNDER REVIEW INDUSTRIAL LOADING SURVEY BEING PROPOSED

REMEDIAL MEASURES

1990

TREATMENT : CONVENTIONAL LAGOON SEASONAL WATERCOURSE : BEETON CREEK

PHOSPHORUS REMOVAL - BATCH MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE HURON

DESIGN CAPACITY: 0.86 1000 m3 IJC DESIGNATION: INDIRECT

POPULATION SERVED: 3000

West (Action)		The second										
1987	   AVG DAY	i	5 DA	Y BOD		 	SUSPEN	IDED SOLI	DS		TOTAL PHO	SPHORUS
	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	1   1.262	131.0	ND			ND	ND			ND	ND	
FEB	0.869	223.0	ND			146.0	ND			8.0	ND	
MAR	1.290	146.0	ND			161.0	ND			5.1	ND	
APR	1.575	11.0	6.0			14.0	1.1			1.3	0.1	
MAY	0.896	164.0	6.9			204.0	40.8			8.5	0.4	
JUN	0.900	111.0	ND			145.0	ND			7.2	ND	
JUL	2.379	111.0	ND			145.0	ND			7.2	ND	
AUG	1.400	121.0	1.6			176.0	12.7			7.0	0.9	
SEP	1.478	175.0	ND			184.0	ND			12.2	ND	
OCT	1.214	631.0	ND			255.0	ND			103.6	ND	
NOV	1.077	120.0	12.3			181.0	13.7			7.8	ND	
DEC	1.457 	11.0 	ND			140.0 	ND			14.0 	ND	
AVERA	GE: 1.316	1 163.0	6.7		7.780	   159.0	17.1		17.706	116.5	0.5	0.606
	VATIONS:12 DANCES	12 	4			j 11 I	4			11	3	
NO OF	SAMPLES	27	11			25	9			23	9	
		İ				i				i	500	

COMPLIANCE : CRITERIA : NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

BOD - YES BOD - 30 mg/L TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - YES SS - 40 mg/L \* - EXCEEDS EFFLUENT CRITERIA

TP - YES TP - 1.0 mg/L ND - NO DATA

REMEDIAL MEASURES START DATE END DATE COMPLIANCE

MUNICIPALITY : UXBRIDGE REGION : CENTRAL

PLANT : UXBRIDGE BROOK WPCP DISTRICT : YORK DURHAM WORKS NUMBER : 120000756 OPERATING AUTHORITY : MUNICIPAL

TREATMENT : EXTENDED AERATION WATERCOURSE : UXBRIDGE BROOK

> MAJOR BASIN MINOR BASIN : GREAT LAKES PHOSPHORUS REMOVAL - CONTINUOUS EFFLUENT POLISHING : LAKE HURON

DESIGN CAPACITY : 3.63 1000 m3 IJC DESIGNATION : INDIRECT

POPULATION SERVED: 4550

1987	AVG DAY	l	5 DA	Y BOD		1	SUSPEN	DED SOLI	DS	1 1	TOTAL PHO	SPHORUS
	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d
JAN	1.511	1 152.0	12.1		18.283	93.0	1.5		2.266	5.6	0.2	0.27
FEB	1.391	230.0	3.8		5.286	162.0	3.2		4.451	6.5	0.2	0.27
MAR	1.911	122.0	7.0		13.377	72.0	7.9		15.097	3.5	0.2	0.40
APR	2.430	96.0	7.1		17.253	74.0	5.4		13.122	3.0	0.2	0.48
MAY	1.700	164.0	13.6		23.120	130.0	3.7		6.290	7.9	0.2	0.35
JUN	1.891	112.0	6.2		11.724	49.0	2.8		5.295	3.1	0.2	0.35
JUL	2.159	96.0	1.4		3.023	1520.0	2.9		6.261	2.9	0.2	0.38
AUG	1.555	114.0	1.7		2.643	92.0	1.8		2.799	3.5	0.1	0.21
SEP	1.477	85.0	12.3		18.167	121.0	23.9		35.300	4.1	0.5	0.67
OCT	1.489	168.0	19.8		29.482	183.0	3.5		5.212	3.8	0.2	0.29
NOV	1.507	118.0	8.4		12.659	139.0	4.4		6.631	3.5	0.3	0.39
DEC	1.867 	405.0	5.9		11.015	165.0	0.5		0.933	4.8	0.1	0.26
AVERA	GE: 1.741	   155.0	8.3		13.836	1 233.0	5.1		8.638	1 4.4	0.2	0.36
OBSER	VATIONS: 12 DANCES	1 12	12			1 12	12		0.000	12	12	0.30
NO OF	SAMPLES	1 13	13			1 13	13			63	240	

COMPLIANCE : CRITERIA : NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

BOD - YES BOD - 25 mg/l SS - 25 mg/l TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - YES \* - EXCEEDS EFFLUENT CRITERIA

TP - YES TP - 1.0 mg/l ND - NO DATA

ANTICIPATED REMEDIAL MEASURES START DATE END DATE COMPLIANCE

MUNICIPALITY : VAUGHAN

PLANT : KLEINBURG WPCP

WORKS NUMBER : 120000417

TREATMENT : EXTENDED AERATION

REGION

: CENTRAL

DISTRICT

: YORK DURHAM

OPERATING AUTHORITY : MUNICIPAL

WATERCOURSE

: HUMBER RIVER

MAJOR BASIN

: GREAT LAKES

MINOR BASIN : LAKE ONTARIO

DESIGN CAPACITY : 0.22 1000 m3

POPULATION SERVED: 900

IJC DESIGNATION : INDIRECT

1987	AVG DAY	1	5 DA	Y BOD		1	SUSPEN	DED SOLI	DS	1 1	TOTAL PHO	SPHORUS
	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d
JAN	0.211	1 103.0	6.6		1.393	   91.0	10.9		2.300	5.3	4.6	0.97
FEB	0.178	134.0	4.6		0.819	121.0	5.3		0.943	6.2	4.7	0.84
MAR	0.155	105.0	6.8		1.054	126.0	6.7		1.038	6.1	3.9	0.59
APR	0.290	94.0	5.6		1.624	84.0	7.7		2.233	4.8	3.3	0.95
MAY	0.175	126.0	11.5		2.012	181.0	10.8		1.890	6.4	6.0	1.05
JUN	0.183	124.0	4.7		0.860	97.0	5.4		0.988	6.2	4.6	0.84
JUL	0.186	106.0	1.9		0.353	57.0	4.1		0.763	4.4	3.8	0.70
AUG	0.169	186.0	3.6		0.608	140.0	2.5		0.423	8.3	4.5	0.75
SEP	0.177	108.0	3.3		0.584	160.0	4.9		0.867	8.8	4.6	0.82
OCT	0.177	126.0	1.2		0.212	76.0	7.0		1.239	6.6	5.1	0.90
NOV	0.234	85.0	2.0		0.468	76.0	14.2		3.323	4.8	4.6	1.08
DEC	0.290	92.0 	2.4		0.696	75.0 	8.4		2.436	4.2	3.6	1.02
AVERA	GE: 0.202	   116.0	4.5		0.890	   107.0	7.3		1.537	6.0	4.4	0.88
	VATIONS:12 DANCES	12 	12			12 	12			12 	12	
NO OF	SAMPLES	25	25			25	25			I 25	25	

COMPLIANCE :

CRITERIA :

NOTE :

BOD - YES SS - YES BOD - 25 mg/l SS - 25 mg/l TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

TP - YES

TP - NONE

\* - EXCEEDS EFFLUENT CRITERIA ND - NO DATA

REMEDIAL MEASURES

START DATE END DATE

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

ANTICIPATED COMPLIANCE

MUNICIPALITY: VICTORIA HARBOUR REGION : CENTRAL DISTRICT PLANT : VICTORIA HARBOUR WPCP : BARRIE WORKS NUMBER : 120003227 OPERATING AUTHORITY : MINISTRY

TREATMENT : EXTENDED AERATION

MAJOR BASIN MINOR BASIN PHOSPHORUS REMOVAL - CONTINUOUS : GREAT LAKES EFFLUENT POLISHING : LAKE HURON DESIGN CAPACITY : 2.36 1000 m3 IJC DESIGNATION : DIRECT

WATERCOURSE

: GEORGIAN BAY

POPULATION SERVED : 1646

1987	AV	G DAY	1	5 DA	Y BOD			SUSPEN	DED SOLI	DS	1 1	TOTAL PHO	SPHORUS
	F	LOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(100	0 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
1411	ļ	0.631	1 01 0	3.0		1 907	1 105 0	0.4		0.770	T		0.404
JAN	!		91.0			1.893	105.0	0.6		0.379		0.2	0.101
FEB	!	0.637	87.0	5.1		3.249	65.0	0.6		0.382	3.6	0.1	0.038
MAR	1	0.826	92.0	1.6		1.322	76.0	1.5		1.239	2.8	0.1	0.083
APR	1	0.737	138.0	3.0		2.211	101.0	1.0		0.737	2.9	0.1	0.088
MAY	1	0.720	119.0	4.0		2.880	82.0	0.8		0.576	4.7	0.3	0.223
JUN	1	0.683	92.0	1.7		1.161	63.0	4.3		2.937	3.6	0.3	0.205
JUL	1	0.635	99.0	1.3		0.826	110.0	1.3		0.826	5.7	0.2	0.146
AUG	1	0.587	79.0	1.8		1.057	53.0	0.8		0.470	5.8	0.2	0.112
SEP	1	0.495	73.0	2.4		1.188	55.0	2.3		1.138	3.8	0.2	0.119
OCT	1	0.475	114.0	1.2		0.570	77.0	0.4		0.190	4.1	0.3	0.128
NOV	1	0.630	100.0	1.6		1.008	108.0	1.0		0.630	3.9	0.2	0.095
DEC	 	0.800	103.0 	5.7		4.560	109.0 	0.6		0.480	3.7 	0.1	0.104
AVERA	GE:	0.655	99.0	2.7		1.827	84.0	1.3		0.832	1 4.0	0.2	0.120
OBSER		NS:12	j 12	12			12 	12			12	12	
NO OF	SAMP	LES	20	23			18	23			20	31	

COMPLIANCE : CRITERIA : NOTE :

800 - 25 mg/l BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS BOD - YES TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

\* - EXCEEDS EFFLUENT CRITERIA SS - YES

TP - YES TP - 1.0 mg/l ND - NO DATA

ANTICIPATED REMEDIAL MEASURES START DATE END DATE COMPLIANCE

MUNICIPALITY : WASAGA BEACH REGION : CENTRAL PLANT : WASAGA BEACH WPCP (SUM.POP.SERV.73000) DISTRICT : BARRIE

WORKS NUMBER: 120001862

TREATMENT : EXTENDED AERATION WATERCOURSE : NO DISC.TO SURFACE WATER

> EFFLUENT POLISHING MAJOR BASIN : GREAT LAKES MINOR BASIN EXFILTRATION : LAKE HURON

OPERATING AUTHORITY : MINISTRY

DESIGN CAPACITY : 5.77 1000 m3 IJC DESIGNATION : DIRECT

POPULATION SERVED: 3090

1987	AVG DAY	1	5 DA	Y BOD		1	SUSPEN	DED SOLI	DS	1	TOTAL PHO	SPHORUS
	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d
JAN	0.723	53.0	ND		ND	1   35.0	ND		ND	2.9	ND	ND
FEB	0.705	100.0	ND		ND	74.0	ND		ND	5.8	ND	ND
MAR	0.795	89.0	ND		ND	69.0	ND		ND	1 4.6	ND	ND
APR	0.954	35.0	ND		ND	24.0	ND		ND	2.1	ND	ND
MAY	1.029	68.0	ND		ND	45.0	ND		ND	3.8	ND	ND
JUN	1.198	93.0	ND		ND	91.0	ND		ND	1 4.7	ND	ND
JUL	2.123	166.0	ND		ND	160.0	ND		ND	6.8	ND	ND
AUG	1.912	188.0	ND		ND	165.0	ND		ND	10.6	ND	ND
SEP	1.101	68.0	ND		ND	59.0	ND		ND	1 4.6	ND	ND
OCT	0.759	92.0	ND		ND	77.0	ND		ND	5.1	ND	ND
NOV	0.709	95.0	ND		ND	73.0	ND		ND	1 4.6	ND	ND
DEC	0.776 	ND 	ND		ND	ND	ND		ND	ND	ND	ND
AVERA	GE: 1.065	95.0	0.0		0.000	79.0	0.0		0.000	5.1	0.0	0.00
	VATIONS:12 DANCES	11 	0			11 	0			į 11	0	
NO OF	SAMPLES	19	0			18	0			18	0	

COMPLIANCE : CRITERIA : NOTE :

> BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS BOD - NO DISCHARGE

BOD - 25 mg/l TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - NO DISCHARGE SS - 25 mg/l \* - EXCEEDS EFFLUENT CRITERIA

TP - NO DISCHARGE TP - NONE ND - NO DATA

ANTICIPATED REMEDIAL MEASURES START DATE END DATE COMPLIANCE

MUNICIPALITY: WHITBY REGION : CENTRAL

PLANT : CORBETT CREEK WPCP DISTRICT : YORK DURHAM WORKS NUMBER : 120000738 OPERATING AUTHORITY : MUNICIPAL

TREATMENT : CONVENTIONAL ACTIVATED SLUDGE WATERCOURSE : LAKE ONTARIO

PHOSPHORUS REMOVAL-CONTINUOUS MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ONTARIO

DESIGN CAPACITY: 36.36 1000 m3 IJC DESIGNATION: DIRECT

POPULATION SERVED : 26100

1987	AVG DAY	1	5 DA	Y BOD		1	SUSPEN	DED SOLI	DS	1	TOTAL PHO	SPHORUS
	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	1 16.377	72.0	22.0		360.294	   110.0	12.6		206.350	4.6	1.1 *	18.178
FEB	12.358	135.0	12.0		148.296	183.0	8.5		105.043	5.8	0.7	8.898
MAR	16.523	152.0	11.0		181.753	174.0	11.5		190.014	5.7	0.9	14.210
APR	17.757	229.0	7.2		127.850	175.0	9.1		161.589	5.0	0.8	14.561
MAY	13.965	149.0	39.8		555.807	228.0	17.7		247.180	6.1	0.9	13.127
JUN	17.010	111.0	17.0		289.170	157.0	18.1		307.881	7.1	1.6 *	26.53
JUL	20.233	289.0	21.7		439.056	170.0	15.7		317.658	10.9	1.6 *	31.76
AUG	20.205	287.0	46.2		933.471	236.0	48.4		977.922	111.4	3.2 *	64.050
SEP	20.262	178.0	10.0		202.620	162.0	15.9		322.166	7.8	0.4	8.91
OCT	22.313	240.0	24.4		544.437	174.0	38.0		847.894	16.6	3.4 *	75.64
NOV	23.693	170.0	20.9		495.184	193.0	31.8		753.437	14.0	2.5 *	58.75
DEC	28.919 	ND 	23.2		670.921	97.0 	20.9		604.407	10.7 	2.0 *	56.970
AVERA	GE: 19.135	183.0	21.3		412.405	172.0	20.7		420.128	1 8.8	1.6 *	32.634
OBSER	VATIONS:12	11	12			1 12	12			1 12	12	
EXCEE	DANCES	Ĩ				1					7	
NO OF	SAMPLES	11	12			I 56	56			200	239	

COMPLIANCE : CRITERIA : NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

BOD - YES BOD - 25 mg/L TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - YES SS - 25 mg/L \* - EXCEEDS EFFLUENT CRITERIA

TP - NO TP - 1.0 mg/L ND - NO DATA

ANTICIPATED REMEDIAL MEASURES START DATE END DATE COMPLIANCE ENFORCING BY-LAWS 87/07/01 88/06/30 89/12/31 PHOSPHORUS REMOVAL OPERATION UNDER REVIEW 87/07/01 88/06/30 89/12/31 CONDUCTING TREATABILITY STUDIES 87/07/01 88/06/30 89/12/31

MUNICIPALITY : WHITBY

WORKS NUMBER : 120000747

PLANT : PRINGLE CREEK WPCP NO 1

TREATMENT : CONVENTIONAL ACTIVATED SLUDGE

PHOSPHORUS REMOVAL - CONTINUOUS

REGION

: CENTRAL

DISTRICT

: YORK DURHAM

OPERATING AUTHORITY : MUNICIPAL

WATERCOURSE

: PRINGLE CREEK

MAJOR BASIN

: GREAT LAKES

MINOR BASIN

: LAKE ONTARIO

DESIGN CAPACITY :

5.68 1000 m3

IJC DESIGNATION

: INDIRECT

POPULATION SERVED: 10925

1987	AVG DAY	1	5 DA	Y BOD		ľ	SUSPEN	DED SOLI	DS	1	OTAL PHO	SPHORUS
	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d
JAN	3.668	1 118.0	4.6		16.873	   143.0	7.3		26.776	5.5	0.5	1.87
FEB	3.387	129.0	5.3		17.951	152.0	7.6		25.741	5.9	0.4	1.42
MAR	3.463	157.0	6.0		20.778	152.0	7.0		24.241	4.1	0.3	1.00
APR	4.030	163.0	7.7		31.031	102.0	5.5		22.165	3.9	0.5	2.01
YAM	2.727	110.0	7.6		20.725	95.0	4.4		11.999	5.5	0.6	1.50
JUN	3.065	60.0	4.1		12.566	153.0	6.9		21.149	5.4	0.8	2.29
JUL	2.212	81.0	2.0		4.424	168.0	8.9		19.687	5.4	0.6	1.28
AUG	2.755	104.0	3.1		8.540	319.0	14.7		40.498	5.0	0.7	2.01
SEP	4.008	83.0	3.6		14.429	460.0	35.8		143.486	4.8	0.8	3.16
OCT	4.407	276.0	12.9		56.850	292.0	26.5		116.785	5.2	0.9	3.74
VOV	3.692	66.0	13.2		48.734	121.0	12.7		46.888	4.4	0.7	2.58
DEC	4.081 	49.0	6.1		24.894	107.0 	10.3		42.034	3.0 	0.5	2.04
AVERA	GE: 3.458	1 116.0	6.4		23.150	   189.0	12.3		45.121	   4.8	0.6	2.07
	VATIONS:12 DANCES	12 	12			12 	12			12 	12	
NO OF	SAMPLES	12	12			97	90			246	285	

COMPLIANCE :

CRITERIA :

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

BOD - YES BOD - 25 mg/l SS - YES SS - 25 mg/l

\* - EXCEEDS EFFLUENT CRITERIA

TP - YES TP - 1.0 mg/l ND - NO DATA

ANTICIPATED

REMEDIAL MEASURES

START DATE END DATE

COMPLIANCE

MUNICIPALITY : WHITBY PLANT : PRINGLE CREEK WPCP NO 2

WORKS NUMBER : 120003101

TREATMENT : CONVENTIONAL ACTIVATED SLUDGE

PHOSPHORUS REMOVAL - CONTINUOUS

DISTRICT : YORK DURHAM

: CENTRAL

OPERATING AUTHORITY : MUNICIPAL WATERCOURSE : PRINGLE CREEK

MAJOR BASIN : GREAT LAKES MINOR BASIN : LAKE ONTARIO

IJC DESIGNATION : INDIRECT

DESIGN CAPACITY : 9.09 1000 m3

POPULATION SERVED: 10925

1987	AVG DAY	1	5 DA	Y BOD		1	SUSPEN	DED SOLI	DS	1 7	TOTAL PHO	SPHORUS
	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d
JAN	6.419	1 118.0	6.8		43.649	l   143.0	8.1		51.994	   5.5	0.9	5.97
FEB	6.398	129.0	10.1		64.620	152.0	8.1		51.824	5.0	0.6	3.90
MAR	5.981	157.0	6.6		39.475	152.0	11.5		68.781	4.1	0.4	2.51
APR	6.835	163.0	ND		ND	102.0	5.6		38.276	3.9	0.7	4.71
YAM	5.280	110.0	9.4		49.632	95.0	6.1		32.208	5.6	0.7	3.90
JUN	6.185	60.0	4.4		27.214	153.0	7.4		45.769	5.4	0.7	4.14
JUL	4.967	81.0	3.1		15.398	168.0	8.1		40.233	5.4	0.5	2.28
AUG	5.585	104.0	3.0		16.755	319.0	26.3		146.886	5.0	0.7	4.13
SEP	6.519	83.0	6.0		39.114	460.0	28.8		187.747	4.8	0.8	5.41
OCT	5.277	276.0	12.8		67.546	292.0	25.8		136.147	5.2	0.8	4.32
NOV	4.233	66.0	13.9		58.839	121.0	10.4		44.023	4.4	0.8	3.34
DEC	4.779 	49.0 	4.8		22.939	107.0 	8.7		41.577	3.0 	0.8	3.87
AVERA	GE: 5.705	   116.0	7.4		40.471	189.0	12.9		73.789	1 4.8	0.7	4.04
	VATIONS:12 DANCES	12 	11			12 	12			12 	12	
10 OF	SAMPLES	12	11			92	88			227	284	

COMPLIANCE : CRITERIA : NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

BOD - YES BOD - 25 mg/l SS - 25 mg/l TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - YES \* - EXCEEDS EFFLUENT CRITERIA

ND - NO DATA TP - YES TP - 1.0 mg/l

ANTICIPATED

REMEDIAL MEASURES START DATE END DATE COMPLIANCE

MUNICIPALITY : WHITCHURCH-STOUFFVILLE

PLANT

: STOUFFVILLE WPCP

WORKS NUMBER : 120000408 TREATMENT

: CONVENTIONAL ACTIVATED SLUDGE

PHOSPHORUS REMOVAL - CONTINUOUS

EFFLUENT POLISHING

DESIGN CAPACITY :

3.86 1000 m3

POPULATION SERVED :

5500

REGION

: CENTRAL

DISTRICT

: YORK DURHAM

OPERATING AUTHORITY : MUNICIPAL

WATERCOURSE

: DUFFIN CREEK

MAJOR BASIN

: GREAT LAKES

MINOR BASIN

: LAKE ONTARIO

IJC DESIGNATION

: INDIRECT

1987 | AVG DAY 5 DAY BOD SUSPENDED SOLIDS TOTAL PHOSPHORUS FLOW INF **EFF** LOAD INF **EFF** LOAD INF EFF LOAD |(1000 m3/d) |(mg/L) (mg/L) (%REM) (kg/d) |(mg/L) (mg/L) (%REM) (kg/d) (mg/L) (mg/L) (kg/d) | JAN 3.165 | 105.0 3.0 9.495 | 127.0 1.2 3.798 | 5.2 0.4 1.139 I 2.941 | 108.0 FEB 4.3 12.646 | 81.0 2.3 6.764 | 5.4 0.4 1.059 | MAR 4.412 | 59.0 3.5 15.442 | 48.0 2.5 11.030 | 3.9 0.4 1.721 4.743 APR 35.0 2.3 10.909 | 35.0 1.7 8.063 | 2.4 0.4 1.660 I 3.698 | 76.0 MAY 6.5 24.037 | 55.0 1.7 6.287 | 4.3 0.5 1.849 JUN 3.599 | 75.0 2.4 8.638 | 74.0 1.4 5.039 | 4.2 0.3 1.008 | 3.422 | 132.0 JUL 2.0 6.844 | 93.0 2.0 6.844 | 4.8 0.2 0.684 | 3.040 | 82.0 AUG 4.0 12.160 | 84.0 2.5 7.600 | 5.5 0.3 0.851 3.284 | 81.0 SEP 1.2 3.941 | 47.0 0.1 0.328 | 5.1 0.2 0.493 | 3.196 | 111.0 OCT 2.2 7.031 | 154.0 1.8 5.753 | 8.6 0.2 0.767 NOV 3.530 1 122.0 16.238 | 131.0 4.6 1.2 4.236 | 8.2 0.3 0.918 | 4.037 | 71.0 DEC 2.6 10.496 | 92.0 0.9 3.633 | 5.2 0.5 2.180 I AVERAGE: 3.589 88.0 3.2 11.490 | 85.0 1.6 5.781 | 5.2 0.3 1.194 | | OBSERVATIONS: 12 12 12 12 12 | 12 12 EXCEEDANCES NO OF SAMPLES 23 23 23 21 23 21

COMPLIANCE :

CRITERIA :

NOTE :

BOD - YES SS - YES

REMEDIAL MEASURES

BOD - 25 mg/l

SS - 25 mg/l

TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

\* - EXCEEDS EFFLUENT CRITERIA

TP - YES TP - 1.0 mg/l ND - NO DATA

ANTICIPATED

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

START DATE END DATE

COMPLIANCE



# Southeastern Region



# REGIONAL OFFICE

Kingston 133 Dalton St. Box 820 K7L 4X6 (613) 549-4000

## DISTRICT OFFICES

Cornwall 4 Montreal Road K6H 1B1 (613) 933-7402

Kingston 133 Dalton St. K7L 4X6 (613) 549-4000

Ottawa 2378 Holly Lane K1V 7P1 (613) 521-3450

## SUB-OFFICES

Belleville 15 Victoria Ave. K8N 1Z5 (613) 962-9208

Pembroke 1000 MacKay St. K8B 1A3 (613) 732-3643

# SOUTHEASTERN SUMMARY - 1987

TREATMENT TYPE		NUMBER		2.337.5	DRAULIC LOADING	<del>31</del> )
	MINISTRY	MUNICIPAL	TOTAL	MINISTRY	MUNICIPAL	TOTAL
Communal Septic Tank	0	1	0	.000	.381	.381
Primary	3	12	15	64.780	508.929	573.709
Conventional Activated Sludge	4	3	7	96.034	40.004	(126.201) 136.039
Modified Activated Sludge	1	0	1	12.274	.000	(29.925) 12.274
Contact Stabilization	1	1	2	1.363	4.546	(2.700) 5.909 (1.300)
Extended Aeration	11	5	16	7.687	7.523	15.210 (3.346)
Trickling Filter	0	0	0	.000	.000	.000
High Rate	1	0	1	5.455	.000	5.455 (1.200)
Oxidation Ditch	0	0	0	.000	.000	.000
Aerated Lagoon	0	0	0	.000	.000	.000
Conventional Lagoon Continuous	1	1	2	2.391	5.909	(.000) 8.300
Conventional Lagoon Seasonal	10	4	14	12.960	22.593	(1.826) 35.554 (7.821)
Conventional Lagoon Annual	2	0	2	1.654	.000	1.654
Lagoon and Spray	1	1	2	.336	.363	.700 (.154)
Aerated Cell Plus Lagoon	3	0	3	12.728	.000	12.728
Exfiltration Lagoon	0	0	0	.000	.000	.000
TOTALS	38	28	66	217.667 (47.881)	590.252 (129.840)	807.919 (177.721)

10 $^3$ m/d: THOUSANDS OF CUBIC METRES PER DAY CONVERSION FACTOR migd: MILLION IMPERIAL GALLONS PER DAY 10 $^3$ m $^3$ /d = .220 MIGD 01307-PDR.47

REGION : SOUTHEAST MUNICIPALITY : ALEXANDRIA PLANT : ALEXANDRIA LAGOON DISTRICT : CORNWALL OPERATING AUTHORITY : MINISTRY WORKS NUMBER : 110000846

WATERCOURSE : DELISLE R TREATMENT : AERATED CELL PLUS LAGOON

CONTINUOUS DISCHARGE MAJOR BASIN : GREAT LAKES MINOR BASIN : ST. LAWRENCE RIVER PHOSPHORUS REMOVAL - CONTINUOUS

IJC DESIGNATION : NON IJC DESIGN CAPACITY : 7.84 1000 m3

POPULATION SERVED: 3500

1987	AV	G DAY	1	5 DA	Y BOD		l	SUSPEN	DED SOLI	DS	1 1	OTAL PHO	SPHORUS
	FI	LOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(100	0 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d
JAN	l	4.659	62.0	39.0		181.701	   64.0	25.0		116.475	4.0	1.2 *	5.59
FEB	ĺ	4.424	165.0	15.0		66.360	59.0	29.4		130.066	3.1	1.3 *	5.84
MAR	1	8.051	74.0	25.0		201.275	54.0	20.0		161.020	3.9	1.1 *	9.01
APR	١	6.714	64.0	30.4		204.106	48.0	35.5		238.347	1.7	1.2 *	7.92
MAY	1	4.734	62.0	10.8		51.127	59.0	23.4		110.776	2.2	0.5	2.27
JUN	ĺ	7.082	57.0	17.0		120.394	57.0	10.0		70.820	3.1	0.5	3.54
JUL	1	5.629	64.0	12.7		71.488	49.0	18.7		105.262	3.2	0.5	2.58
AUG	1	4.596	82.0	13.4		61.586	34.0	6.9		31.712	2.3	0.6	2.5
SEP	1	5.054	36.0	9.5		48.013	117.0	6.7		33.862	2.6	0.1	0.2
OCT	1	4.990	56.0	6.0		29.940	167.0	7.0		34.930	3.0	0.2	0.8
NOV	1	4.458	44.0	9.5		42.351	73.0	6.8		30.314	2.9	0.2	0.8
DEC		7.361	25.0 	5.0		36.805	42.0 	7.4		54.471	3.4 	0.1	0.5
AVERA	GE:	5.646	66.0	16.1		92.929	69.0	16.4		93.171	2.9	0.6	3.48
OBSER	VATIO	NS:12	1 12	12			12	12			j 12	12	
EXCEE	DANCE	s	1				1				1	4	
NO OF	SAMP	LES	67	103			75	116			68	110	

COMPLIANCE : CRITERIA : NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

BOD - YES TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

BOD - 30 mg/l SS - 40 mg/l SS - YES \* - EXCEEDS EFFLUENT CRITERIA

ND - NO DATA TP - NO TP - 1.0 mg/l

ANTICIPATED

REMEDIAL MEASURES START DATE END DATE COMPLIANCE

CHANGE OF PHOSPHORUS REMOVAL CHEMICAL 86/01/01 86/12/31

MUNICIPALITY : ALFRED REGION : SOUTHEAST DISTRICT PLANT : ALFRED LAGOON : CORNWALL WORKS NUMBER : 110001836 OPERATING AUTHORITY : MINISTRY

TREATMENT : CONVENTIONAL LAGOON SEASONAL WATERCOURSE : RUISSEAU DES ATOCAS

> MAJOR BASIN : GREAT LAKES MINOR BASIN : OTTAWA RIVER

DESIGN CAPACITY : 0.71 1000 m3 IJC DESIGNATION : NON IJC

POPULATION SERVED : 1055

1987	AVG DAY	i	5 DA	Y BOD		i	SUSPEN	DED SOLI	DS	i ,	TOTAL PHO	SPHORUS
	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	0.410	48.0	ND			368.0	ND			7.6	ND	
FEB	0.385	89.0	ND			227.0	ND			7.9	ND	
MAR	0.458	103.0	20.0			449.0	27.0			8.0	6.7	
APR	0.511	65.0	10.7			131.0	24.2			5.2	3.6	
MAY	0.554	68.0	ND			703.0	ND			7.7	ND	
JUN	0.637	94.0	ND			344.0	ND			7.2	ND	
JUL	0.444	93.0	ND			151.0	ND			13.4	ND	
AUG	0.409	92.0	ND			338.0	ND			6.7	ND	
SEP	0.472	77.0	ND			195.0	ND			7.1	ND	
OCT	0.475	213.0	ND			932.0	ND			7.6	ND	
NOV	0.476	110.0	ND			230.0	ND			7.8	ND	
DEC	0.528 	109.0	ND			179.0 	ND			7.7	ND	
AVERAC	GE: 0.480	1 97.0	15.4		7.314	1 354.0	25.6		12.366	7.8	5.2	2.454
	VATIONS:12	1 12	2		. 1514	1 12	2		12.300	12	2	2.43
EXCEED	DANCES	i	).=v			1	-			1	-	
10 OF	SAMPLES	24	8			24	8			24	8	
		i					_				U	

COMPLIANCE : CRITERIA : NOTE :

> BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS BOD - YES BOO - 30 mg/l

TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - YES SS - 40 mg/l \* - EXCEEDS EFFLUENT CRITERIA

TP - YES TP - NONE ND - NO DATA

ANTICIPATED

REMEDIAL MEASURES START DATE END DATE COMPLIANCE

MUNICIPALITY : ALMONTE REGION : SOUTHEAST
PLANT : ALMONTE LAGOON DISTRICT : OTTAWA

WORKS NUMBER: 110000873 OPERATING AUTHORITY: MINISTRY

TREATMENT : AERATED CELL PLUS LAGOON WATERCOURSE : MISSISSIPPI RIVER

SEASONAL DISCHARGE MAJOR BASIN : GREAT LAKES
PHOSPHORUS REMOVAL - BATCH MINOR BASIN : OTTAWA RIVER

DESIGN CAPACITY : 1.54 1000 m3 IJC DESIGNATION : NON IJC

POPULATION SERVED: 4025

1987	AVG DAY	1	5 DA	Y BOD		1	SUSPEN	DED SOLI	DS	1	TOTAL PHO	SPHORUS
	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	1.390	1 156.0	ND			248.0	ND			8.7	ND	
FEB	1.371	277.0	ND			402.0	ND			13.0	ND	
MAR	4.229	184.0	ND			549.0	ND			8.0	ND	
APR	3.595	85.0	ND			150.0	ND			3.8	ND	
MAY	1.808	161.0	12.7			207.0	11.2			7.2	0.5	
JUN	2.085	126.0	ND			140.0	ND			5.0	ND	
JUL	1.973	70.0	ND			191.0	ND			6.5	ND	
AUG	1.252	104.0	ND			141.0	ND			6.8	ND	
SEP	1.390	230.0	ND			470.0	ND			112.1	ND	
OCT	1.804	80.0	8.6			88.0	15.2			5.7	0.8	
NOV	1.962	99.0	ND			166.0	ND			7.8	ND	
DEC	3.190 	84.0 	ND			136.0 	ND			4.8	ND	
AVERA	GE: 2.171	138.0	10.7		19.238	241.0	13.2		23.835	7.5	0.6	1.11
	VATIONS:12 DANCES	12 	2			12 	2		11-11-11-11-11-11-11-11-11-11-11-11-11-	12	2	
NO OF	SAMPLES	14	2			14	2			1 14	2	

COMPLIANCE : CRITERIA : NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

BOD - YES BOD - 30 mg/L TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - YES SS - 40 mg/l \* - EXCEEDS EFFLUENT CRITERIA

TP - YES TP - 1.0 mg/l ND - NO DATA

REMEDIAL MEASURES

START DATE

END DATE

COMPLIANCE

ENGINEERING STUDY PHASE

COLLECTION SYSTEM DEFICIENCY UNDER STUDY

ANTICIPATED

COMPLIANCE

1984

88/06/30

1991

MUNICIPALITY : ARNPRIOR REGION : SOUTHEAST
PLANT : ARNPRIOR WPCP DISTRICT : OTTAWA
WORKS NUMBER : 120000621 OPERATING AUTHORITY : MUNICIPAL

TREATMENT : PRIMARY WATERCOURSE : MADAWASKA RIVER

PHOSPHORUS REMOVAL-CONTINUOUS MAJOR BASIN : GREAT LAKES
MINOR BASIN : OTTAWA RIVER

DESIGN CAPACITY: 6.81 1000 m3 IJC DESIGNATION: NON IJC

POPULATION SERVED : 5800

1987	AVG DAY	1	5 DA	Y BOD		I	SUSPEN	DED SOLI	DS	i 1	TOTAL PHO	SPHORUS
	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d
JAN	3.800	1 170.0	82.0	52	311.600	90.0	42.0	53	159.600	   3.8	1.0	3.800
FEB	3.682	ND	ND	0	ND	72.0	51.0	29	187.782	5.2	1.9 *	6.99
MAR	7.405	80.0	29.0	64	214.745	94.0	37.0	61	273.985	6.3	2.0 *	14.514
APR	7.546	46.0	34.0	26	256.564	25.0	38.0	0	286.748	1.3	0.8	6.03
YAN	5.046	153.0	59.0	61	297.714	100.0	42.0	58	211.932	3.6	0.9	4.49
JUN	5.396	97.0	46.0	53	248.216	97.0	42.0	57	226.632	3.5	1.0	5.18
JUL	4.632	48.0	45.8	5	212.146	39.0	24.5	37	113.484	2.3	0.7	3.15
AUG	4.364	92.0	45.0	51	196.380	51.0	36.0	29	157.104	2.3	0.6	2.44
SEP	4.046	ND	ND	0	ND	ND ND	ND	0	ND	ND	ND	ND
DCT	4.500	40.0	12.0	70	54.000	74.0	46.0	38	207.000	1.9	1.8 *	8.28
VOV	4.819	68.0	54.0	21	260.226	94.0	41.0	56	197.579	2.0	1.2 *	5.68
DEC	6.001 	72.0 	65.0	10	390.065	43.0	29.0	33	174.029	2.0 	0.9	5.40
VERA	GE: 5.103	87.0	47.2	41 *	244.166	71.0	39.0	45 *	199.625	3.1	1.2 *	5.99
OBSER\	VATIONS: 12	10	10			11	11			1 11	11	
XCEE	DANCES	ľ				Ì				i	4	
O OF	SAMPLES	33	42			34	43			I 34	43	

COMPLIANCE:

CRITERIA:

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

BOD - NO BOD - 50%

TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - NO SS - 70%

\* - EXCEEDS EFFLUENT CRITERIA

TP - NO TP - 1.0 mg/l ND - NO DATA

ANTICIPATED REMEDIAL MEASURES START DATE END DATE COMPLIANCE FUNDING UNDER REVIEW 89/01/01 90/01/31 92/01/31 COLLECTION SYSTEM DEFICIENCY UNDER STUDY 88/01/01 88/09/30 INFILTRATION PROBLEMS ARE BEING CORRECTED 90/01/31 PROGRAM UNDER REVIEW 87/11/01 89/01/31 INPLANT SAMPLING PROGRAM IS BEING MODIFIED 87/03/01 87/12/01 PHOSPHORUS REMOVAL OPERATION UNDER REVIEW 87/03/01 87/12/31

MUNICIPALITY : BANCROFT : SOUTHEAST

PLANT : BANCROFT WPCP DISTRICT : KINGSTON

WORKS NUMBER : 110001239 OPERATING AUTHORITY : MUNICIPAL

TREATMENT : EXTENDED AERATION WATERCOURSE : YORK RIVER

MAJOR BASIN : GREAT LAKES
MINOR BASIN : OTTAWA RIVER

DESIGN CAPACITY : 4.13 1000 m3 IJC DESIGNATION : NON IJC

POPULATION SERVED : 2095

	_		·										
1987	AV	G DAY	i i	5 DA	Y BOD		! 	SUSPEN	DED SOLI	DS		TOTAL PHO	SPHORUS
	F	LOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(100	0 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	1 	1.027	79.0	7.8		8.011	   95.0	9.2		9.448	4.2	2.7	2.722
FEB	1	1.003	ND	ND		ND	90.0	7.5		7.522	5.8	3.1	3.109
MAR	l .	1.162	50.0	4.0		4.648	71.0	5.0		5.810	3.9	2.3	2.615
APR		1.723	62.0	3.9		6.720	61.0	4.7		8.098	3.5	1.6	2.826
MAY	I	1.266	60.0	3.0		3.798	97.0	4.2		5.317	4.7	2.4	3.089
JUN	l	1.178	80.0	1.2		1.414	96.0	3.3		3.887	8.0	2.5	2.933
JUL	1	1.042	84.0	4.0		4.168	107.0	5.5		5.731	10.4	2.9	3.053
AUG	l	1.013	50.0	1.3		1.317	113.0	6.8		6.888	3.6	2.1	2.107
SEP	1	0.979	ND	ND		ND	103.0	8.2		8.028	ND	ND	ND
OCT	1	0.998	255.0	3.6		3.593	106.0	9.8		9.780	6.4	1.5	1.457
NOV	Ī	1.072	68.0	4.4		4.717	110.0	9.6		10.291	7.3	2.9	3.055
DEC	[	1.280	64.0 	4.2		5.376	260.0 	11.0		14.080	4.3	0.9	1.114
AVERA	GE:	1.145	85.0	3.7		4.376	109.0	7.1		7.907	   5.6	2.3	2.553
OBSER EXCEE		NS:12 S	] 10 	10			12 	12			11	11	2
NO OF	SAMP	LES	14	15			78	79			15	16	

COMPLIANCE : CRITERIA : NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

BOO - YES BOO - 25 mg/L TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - YES SS - 25 mg/l \* - EXCEEDS EFFLUENT CRITERIA

TP - YES TP - NONE ND - NO DATA

ANTICIPATED

REMEDIAL MEASURES START DATE END DATE COMPLIANCE

MUNICIPALITY : BARRY'S BAY REGION : SOUTHEAST : OTTAWA PLANT : BARRY'S BAY WPCP DISTRICT WORKS NUMBER : 110001854 OPERATING AUTHORITY : MINISTRY

TREATMENT : EXTENDED AERATION WATERCOURSE : KAMANISKEG LAKE

> PHOSPHORUS REMOVAL - CONTINUOUS : GREAT LAKES MAJOR BASIN MINOR BASIN : OTTAWA RIVER

IJC DESIGNATION : NON IJC DESIGN CAPACITY : 1.24 1000 m3

POPULATION SERVED: 1413

1987	AVG DAY	1	5 DA	Y BOD		l	SUSPEN	DED SOLI	DS	1	TOTAL PHO	SPHORUS
	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d
JAN	   0.283	1 125.0	8.7		2.462	223.0	11.0		3.113	   7.8	0.7	0.19
FEB	0.300	82.0	11.0		3.300	197.0	7.7		2.310	8.6	0.7	0.21
MAR	0.395	100.0	3.5		1.383	146.0	10.8		4.266	7.5	0.5	0.20
APR	0.454	91.0	3.5		1.589	212.0	8.2		3.723	6.6	0.5	0.20
MAY	0.458	106.0	1.6		0.733	171.0	8.3		3.801	6.8	0.4	0.18
JUN	0.503	117.0	1.2		0.604	183.0	8.7		4.376	6.3	0.5	0.25
JUL	0.537	102.0	2.2		1.181	247.0	8.1		4.350	8.0	0.6	0.30
AUG	0.463	120.0	2.1		0.972	251.0	9.8		4.537	6.8	0.7	0.30
SEP	0.420	135.0	3.6		1.512	290.0	8.8		3.696	7.5	0.9	0.35
OCT	0.388	136.0	3.4		1.319	215.0	9.8		3.802	6.8	0.5	0.21
NOV	0.345	145.0	3.3		1.138	252.0	10.4		3.588	7.4	0.7	0.23
DEC	0.310 	123.0 	3.6		1.116	341.0 	10.0		3.100	7.4 	0.4	0.13
AVERA	GE: 0.405	1 115.0	4.0		1.442	227.0	9.3		3.722	7.3	0.6	0.23
	VATIONS: 12 DANCES	12 	12			12 	12			12 	12	
NO OF	SAMPLES	23	23			68	68			66	72	

COMPLIANCE : CRITERIA : NOTE :

> BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS BOD - YES BOD - 25 mg/l TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - YES SS - 25 mg/l \* - EXCEEDS EFFLUENT CRITERIA

TP - YES TP - 1.0 mg/l ND - NO DATA

ANTICIPATED REMEDIAL MEASURES START DATE END DATE COMPLIANCE

MUNICIPALITY : BATH

PLANT : BATH WPCP

WORKS NUMBER : 120000177

TREATMENT : EXTENDED AERATION

REGION

: SOUTHEAST

DISTRICT

: KINGSTON

WATERCOURSE

OPERATING AUTHORITY : MUNICIPAL

MAJOR BASIN

: LAKE ONTARIO

: GREAT LAKES

MINOR BASIN

: LAKE ONTARIO

DESIGN CAPACITY :

1.16 1000 m3

1500

POPULATION SERVED :

IJC DESIGNATION : DIRECT

	T		T								1		
1987	j A	VG DAY	i	5 DA	Y BOD		ĺ	SUSPEN	DED SOLI	DS		TOTAL PHO	SPHORUS
		FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(100	00 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	i	1.002	92.0	0.7		0.701	   79.0	30.5		30.561	5.0	1.9	1.904
FEB	1	0.969	165.0	3.0		2.907	48.0	6.3		6.105	5.2	1.3	1.298
MAR	1	1.166	30.0	6.0		6.996	41.0	9.0		10.494	1.8	0.9	1.014
APR	Ĭ	0.921	110.0	4.5		4.144	133.0	7.5		6.908	5.9	2.7	2.524
MAY	1	0.831	144.0	3.5		2.909	119.0	7.0		5.817	8.1	3.6	2.967
JUN	I	0.873	147.0	1.8		1.571	110.0	4.2		3.667	4.6	1.8	1.60
JUL	1	0.997	177.0	1.5		1.496	161.0	7.4		7.378	6.5	3.0	3.03
AUG	1	1.013	117.0	1.5		1.519	128.0	6.6		6.686	4.8	3.2	3.25
SEP	1	1.110	147.0	1.3		1.443	111.0	0.5		0.555	4.7	2.7	2.95
OCT	1	0.906	74.0	2.9		2.627	100.0	3.4		3.080	7.1	3.4	3.08
NOV	1	1.175	196.0	2.6		3.055	157.0	7.0		8.225	6.5	2.2	2.57
DEC	1	1.195	310.0 	11.0		13.145	212.0 	4.4		5.258	4.8	1.4	1.673
AVERA	GE:	1.013	142.0	3.4		3.543	1 117.0	7.8		7.895	1 5.4	2.3	2.323
OBSER EXCEE		ONS:12	12 	12			12 	12			12	12	2.32
NO OF	SAMP	PLES	22	22			18	23			23	23	
			1				Ì				i i	NATAN	

COMPLIANCE :

CRITERIA :

NOTE :

BOD - YES

BOD - 25 mg/l

SS - YES TP - YES

SS - 25 mg/l TP - NONE

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

\* - EXCEEDS EFFLUENT CRITERIA

ND - NO DATA

REMEDIAL MEASURES

START DATE END DATE

ANTICIPATED COMPLIANCE

MUNICIPALITY : BELLEVILLE

REGION

: SOUTHEAST

PLANT : BELLEVILLE WPCP (163500 M3/D.PRIMARY)

DISTRICT

: KINGSTON

WORKS NUMBER : 110000016

OPERATING AUTHORITY : MINISTRY WATERCOURSE

: LAKE ONTARIO

TREATMENT : CONVENTIONAL ACTIVATED SLUDGE PHOSPHORUS REMOVAL-CONTINUOUS

MAJOR BASIN

: GREAT LAKES : LAKE ONTARIO

DESIGN CAPACITY :

MINOR BASIN

54.55 1000 m3

IJC DESIGNATION : DIRECT

POPULATION SERVED : 35351

1987	A	VG DAY	1	5	DAY	BOD		l	SUSPEN	DED SOLI	DS	1	TOTAL PHO	SPHORUS
	1	FLOW	INF	EF	F		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(10	000 m3/d)	(mg/l	) (mg/	L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	l 	31.884	1 143.	0 39.	0		1243.476	106.0	21.4		682.318	3.9	0.4	12.754
FEB	İ	32.100	126	0 36.	0		1155.600	94.0	15.0		481.500	4.0	0.5	16.050
MAR	1	44.558	100	0 14.	2		632.724	74.0	13.0		579.254	3.0	0.4	17.823
APR	1	46.080	46.	0 15.	7		723.456	68.0	13.3		612.864	1.8	0.3	13.824
MAY	1	26.113	181.	0 26.	0		678.938	88.0	7.9		206.293	3.4	0.5	13.056
JUN	1	25.867	154	0 37.	4		967.426	112.0	11.4		294.884	3.7	0.6	15.520
JUL	1	27.910	108	0 20.	2		563.782	104.0	11.9		332.129	3.5	0.6	16.746
AUG	1	29.600	80	0 21.	0		621.600	95.0	15.2		449.920	4.0	0.6	17.760
SEP	1	25.317	157	0 32.	2		815.207	100.0	12.8		324.058	3.8	0.7	17.722
OCT	1	23.042	175	0 18.	9		435.494	145.0	10.2		235.028	4.8	0.5	11.521
NOV	1	32.703	182	0 26.	3		860.089	144.0	10.0		327.030	4.7	0.5	16.352
DEC	1	41.887	127. 	0 23.	2		971.778	115.0 	12.7		531.965	3.4 	0.5	20.944
AVERA	GF ·	32.255	132.	0 25	8 *		805.798	104.0	12.9	min	421.437	137	0.5	15.839
	VATI	ONS:12	1 12				003.170	12	12		421,437	12 	12	13.03
NO OF	SAM	IPLES	52	50	Ĩ.			142	145			129	129	

COMPLIANCE :

CRITERIA :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - YES SS - 25 mg/l . EXCEEDS EFFLUENT CRITERIA

TP - YES TP - 1.0 mg/l ND - NO DATA

BOD - 25 mg/l

ANTICIPATED

REMEDIAL MEASURES

BOD - NO

START DATE END DATE

COMPLIANCE

ENGINEERING STUDY PHASE

86/01/01 86/12/31

MUNICIPALITY : BROCKVILLE WPCP REGION : SOUTHEAST
PLANT : BROCKVILLE WPCP DISTRICT : KINGSTON
WORKS NUMBER : 120000122 OPERATING AUTHORITY : MUNICIPAL

TREATMENT : PRIMARY WATERCOURSE : ST.LAWRENCE RIVER

PHOSPHORUS REMOVAL-CONTINUOUS MAJOR BASIN : GREAT LAKES

MINOR BASIN : ST. LAWRENCE RIVER

DESIGN CAPACITY : 25.57 1000 m3 IJC DESIGNATION : DIRECT

POPULATION SERVED: 20169

1987	4	VG DAY	1	5 DA	Y BOD		I	SUSPEN	DED SOLI	DS	1	TOTAL PHOS	SPHORUS
	1	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(10	00 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d
JAN		13.595	1 137.0	45.0	67	611.775	   174.0	25.1	86	341.235	   5.9	1.6 *	21.07
FEB	1	12.909	26.0	4.0	85	51.636	57.0	14.2	75	183.308	5.3	1.0	12.90
MAR	1	20.005	48.0	15.0	69	300.075	81.0	23.8	71	476.119	4.8	1.0	19.60
APR	1	16.761	136.0	34.5	75	578.255	141.0	25.5	82	427.405	5.1	0.8	14.07
1AY	1	13.014	168.0	26.5	84	344.871	155.0	34.5	78	448.983	8.7	2.1 *	27.19
JUN	1	13.786	112.0	21.5	81	296.399	178.0	27.8	84	383.251	6.4	1.5 *	19.99
IUL	1	15.318	26.0	9.8	62	150.116	143.0	21.7	85	332.401	5.0	1.7 *	26.65
NUG	1	15.884	147.0	57.0	61	905.388	120.0	32.6	73	517.818	7.8	4.7 *	74.65
EP	1	19.063	97.0	32.0	67	610.016	100.0	57.8	42	1101.841	6.4	2.4 *	45.1
CT	1	19.717	172.0	29.0	83	571.793	124.0	49.3	60	972.048	6.8	2.6 *	50.8
IOV	1	19.291	96.0	43.0	55	829.513	139.0	75.0	46	1446.825	8.9	3.8 *	73.30
EC	 	24.159	112.0	37.0	67	893.883	96.0 	45.8	52	1106.482	5.2 	1.9 *	45.4
VERA	GE:	16.959	106.0	29.5	71	511.977	1 126.0	36.1	70 *	644.810	1 6.4	2.1 *	35.9
BSER	VATI	ONS:12	12	12			1 12	12			1 12	12	57.2A
XCEE	DANC	ES	1				1				l	9	
O OF	SAM	PLES	22	21			50	50			1 46	46	

COMPLIANCE : CRITERIA : NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

BOD - YES BOD - 50% TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - NO SS - 70% \* - EXCEEDS EFFLUENT CRITERIA

TP - NO TP - 1.0 mg/L ND - NO DATA

REMEDIAL MEASURES ANTICIPATED

START DATE END DATE COMPLIANCE

ENFORCING BY-LAWS

INSTALLATION OF PRE-TREATMENT EQUIPMENT UNDERTAKEN

CONDUCTING TREATABILITY STUDIES 87/12/01 89/03/31 89/04/30

MUNICIPALITY : CARLETON PLACE

PLANT : CARLETON PLACE WPCP

WORKS NUMBER : 110000971 TREATMENT : HIGH RATE

PHOSPHORUS REMOVAL-CONTINUOUS

OPERATING AUTHORITY : MINISTRY

: SOUTHEAST DISTRICT : OTTAWA

REGION

WATERCOURSE : MISSISSIPPI RIVER

MAJOR BASIN

: GREAT LAKES

: OTTAWA RIVER

MINOR BASIN

DESIGN CAPACITY :

5.45 1000 m3

POPULATION SERVED :

5721

IJC DESIGNATION : NON IJC

1987	A.	VG DAY	1	5 DA	Y BOD		I	SUSPEN	DED SOLI	DS	1	TOTAL P	HOSPHORUS
	1	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(10	00 m3/d)	(mg/L	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d
JAN	!	5.561	88.0	14.0		77.854	   68.0	23.5		130.684	l I 2.8	1.4 *	7.73
FEB	1	4.302	61.0	34.0		146.268	55.0	49.0		210.798	3.1	1.5 *	6.45
MAR	1	5.423	18.0	12.0		65.076	30.0	25.5		138.286	1.7	1.3 *	6.94
APR	1	6.297	37.0	11.5		72.415	60.0	31.0		195.207	9	0.9	5.85
MAY	1	5.267	65.0	9.5		50.037	75.0	19.0		100.073	3.2	0.8	4.37
JUN	i	6.238	42.0	16.2		101.056	85.0	35.0		218.330	2.7	0.8	5.17
JUL	l	5.397	22.0	6.0		32.382	21.0	11.0		59.367	1.8	0.6	3.45
AUG	1	6.010	28.0	1.6		9.616	78.0	9.0		54.090	2.5	0.4	2.58
SEP	1	5.620	20.0	86.7		487.254	121.0	594.0		3338.280	33	13.0 *	73.17
OCT	1	5.182	50.0	26.0		134.732	83.0	57.0		295.374	3.0	ND	ND
NOV	1	5.540	44.0	17.0		94.180	101.0	52.0		288.080	3.1	1.6 *	9.08
DEC	 	5.950	69.0	16.0		95.200	193.0 	49.9		296.905	3.9 	1.3 *	7.73
AVERA	GE:	5.566	45.0	20.9		113.839	81.0	79.7 *		443.790	2.6	2.2 *	12.05
OBSER	VATIO	ONS:12	12	12			12	12			12	11	
EXCEE	DANC	ES	1								ĺ	6	
NO OF	SAMI	PLES	15	15			15	15			I 15	14	

COMPLIANCE :

CRITERIA :

NOTE :

BOD - YES BOD - 25 mg/l SS - NO SS - 25 mg/l TP - NO TP - 1.0 mg/l

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

\* - EXCEEDS EFFLUENT CRITERIA

ND - NO DATA

ANTICIPATED COMPLIANCE

UNDER DISCUSSION WITH MUNICIPALITY

ENGINEERING STUDY PHASE SEWER SEPARATION UNDERWAY SEWER REPLACEMENT UNDERWAY

REMEDIAL MEASURES

87/02/01 88/02/01 87/02/01 88/02/01

START DATE END DATE

84/01/01

84/01/01

MUNICIPALITY : CASSELMAN

PLANT : CASSELMAN LAGOON

WORKS NUMBER : 110002201

TREATMENT : CONVENTIONAL LAGOON SEASONAL

REGION

: SOUTHEAST

DISTRICT

: CORNWALL

OPERATING AUTHORITY : MINISTRY WATERCOURSE

: S. NATION RIVER

MAJOR BASIN

: GREAT LAKES

MINOR BASIN

: OTTAWA RIVER

IJC DESIGNATION

: NON IJC

DESIGN CAPACITY :

 $\neg \top$ 1987 | AVG DAY FLOW

JAN

FEB

MAR

APR

MAY

JUN

JUL

AUG

SEP

OCT NOV

DEC

1.36 1000 m3

POPULATION SERVED :

2021

21

1	AVG DAY	1	5 DA	Y BOD		I	SUSPEN	DED SOLI	DS	1	TOTAL PHO	SPHORUS
١	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
_	(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d
i	0.657	71.0	ND			   40.0	ND			1 4.4	ND	
١	0.593	113.0	ND			70.0	ND			5.8	ND	
١	0.890	46.0	ND			67.0	ND			4.8	ND	
١	0.924	39.0	3.6			25.0	5.0			3.0	0.2	
١	0.693	30.0	ND			48.0	ND			4.1	ND	
1	0.705	36.0	ND			36.0	ND			3.4	ND	
١	0.737	78.0	ND			105.0	ND			6.1	ND	
١	0.648	51.0	ND			41.0	ND			4.2	ND	
١	0.660	28.0	ND			73.0	ND			4.8	ND	
١	0.672	62.0	ND			126.0	ND			5.2	ND	
	0.717	44.0	3.0			94.0	4.8			4.2	0.9	
	0.956	64.0 	ND			43.0	ND			2.7 	ND	
AC	E: 0.738	55.0	3.3		2.739	   64.0	4.9		4.031	1 4.4	0.5	0.400
RV	ATIONS: 12	12	2			1 12	2			1 12	2	3110

COMPLIANCE :

AVERAGE: 0.738 |

OBSERVATIONS: 12

**EXCEEDANCES** NO OF SAMPLES

CRITERIA :

NOTE :

21

BOD - YES SS - YES

TP - YES

5

BOD - 30 mg/l

SS - 40 mg/l TP - NONE

TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

\* - EXCEEDS EFFLUENT CRITERIA

ND - NO DATA

REMEDIAL MEASURES

START DATE END DATE

| 21

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

ANTICIPATED COMPLIANCE

MUNICIPALITY : CHALK RIVER PLANT

: CHALK RIVER WPCP

WORKS NUMBER: 110001587

TREATMENT : EXTENDED AERATION

CONVERTIBLE OPERATING MODE

REGION

: SOUTHEAST

DISTRICT

: OTTAWA

WATERCOURSE

OPERATING AUTHORITY : MINISTRY : DUCK CR TO DUCK LAKE

MAJOR BASIN

: GREAT LAKES

MINOR BASIN

: OTTAWA RIVER

DESIGN CAPACITY :

0.36 1000 m3

POPULATION SERVED :

986

IJC DESIGNATION : NON IJC

1987 | AVG DAY 5 DAY BOD SUSPENDED SOLIDS TOTAL PHOSPHORUS FLOW INF EFF LOAD INF **EFF** LOAD INF EFF LOAD |(1000 m3/d) |(mg/L) (mg/L) (%REM) (kg/d) (mg/L) (%REM) (kg/d) (mg/L) (mg/L) (mg/L)(kg/d) | 0.371 | 107.0 20.7 7.680 | 178.0 JAN 26.2 9.720 | 3.7 2.6 0.957 | 8.668 | 170.0 0.394 99.0 FEB 22.0 28.4 11.190 | 5.1 1.8 0.709 | MAR 0.384 | 121.0 13.0 4.992 | 124.0 26.0 9.984 | 5.7 3.0 1.152 | 0.493 48.0 APR 11.0 5.423 | 144.0 15.0 7.395 | 3.4 1.1 0.542 | 0.411 98.0 MAY 10.6 4.357 | 103.0 15.6 6.412 | 4.1 1.5 0.633 | 19.5 7.995 | 154.0 0.410 99.0 JUN 27.7 11.357 | 5.3 2.5 1.025 | JUL 0.374 80.0 23.2 8.677 | 158.0 35.0 13.090 | 5.9 1.9 0.711 | AUG 0.407 | 71.0 24.0 9.768 | 154.0 23.0 9.361 | 7.0 2.0 0.814 | 0.399 | 137.0 25.0 9.975 | 146.0 SEP 15.0 5.985 | 6.1 1.5 0.599 | OCT 0.371 79.0 19.0 7.049 | 219.0 26.0 9.646 | 4.9 1.7 0.631 | NOV 0.370 | 117.0 6.6 2.442 | 143.0 22.0 8.140 | 4.2 2.2 0.814 | | DEC 0.375 | 101.0 19.0 7.125 | 101.0 16.0 6.000 | 3.2 1.3 0.488 | AVERAGE: 0.397 96.0 17.8 7.013 | 150.0 23.0 9.023 | 4.9 1.9 0.756 | OBSERVATIONS:12 12 12 12 12 1 12 12 **EXCEEDANCES** NO OF SAMPLES 37 37 48 56 | 39 39

COMPLIANCE :

CRITERIA :

BOD - 25 mg/l

SS - 25 mg/l

TP - NONE

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

1

- EXCEEDS EFFLUENT CRITERIA

ND - NO DATA

REMEDIAL MEASURES

BOD - YES

SS - YES

TP - YES

START DATE END DATE

ANTICIPATED COMPLIANCE

MUNICIPALITY : CHESTERVILLE REGION : SOUTHEAST PLANT : CHESTERVILLE LAGOON DISTRICT : CORNWALL WORKS NUMBER: 110000114 OPERATING AUTHORITY : MINISTRY

TREATMENT : CONVENTIONAL LAGOON SEASONAL WATERCOURSE : SOUTH NATION RIVER

MAJOR BASIN : GREAT LAKES
MINOR BASIN : OTTAWA RIVER

DESIGN CAPACITY : 3.61 1000 m3 IJC DESIGNATION : NON IJC

POPULATION SERVED : 1460

1987	AVG DAY	1	5 DA	Y BOD		1	SUSPEN	DED SOLI	DS	1	TOTAL PHO	SPHORUS
	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	0.607	74.0	ND			89.0	ND			4.4	ND	
FEB	0.520	74.0	ND			52.0	ND			5.2	ND	
MAR	1.127	71.0	ND			104.0	ND			5.8	ND	
APR	1.024	28.0	20.0			42.0	19.0			2.3	2.7	
MAY	0.653	50.0	ND			54.0	ND			3.6	ND	
JUN	0.727	38.0	ND			94.0	ND			3.1	ND	
JUL	0.814	34.0	ND			48.0	ND			3.7	ND	
AUG	0.576	40.0	ND			57.0	ND			3.8	ND	
SEP	0.589	40.0	ND			76.0	ND			4.8	ND	
OCT	0.614	44.0	ND			41.0	ND			4.1	ND	
NOV	0.721	42.0	4.0			44.0	10.4			3.8	2.8	
DEC	1.083 	34.0 	ND			48.0 	ND			2.3 	ND	
AVERAG	GE: 0.755	1 47.0	12.0		11.682	1 62.0	14.7	1564	13.477	13.0	2.7	2.392
OBSER\	ATIONS:12	12	2			1 12	2			1 12	2	2.37
	ANCES	i	31 - 2			1 ~	2			1	55	
NO OF	SAMPLES	21	6			22	6			22	6	

COMPLIANCE : CRITERIA : NOTE :

> BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS BOD - YES

BOD - 30 mg/l TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - 40 mg/l SS - YES \* - EXCEEDS EFFLUENT CRITERIA

TP - YES TP - NONE ND - NO DATA

ANTICIPATED REMEDIAL MEASURES

START DATE END DATE COMPLIANCE

MUNICIPALITY : COBDEN REGION : SOUTHEAST DISTRICT PLANT : COBDEN WPCP : OTTAWA WORKS NUMBER: 120000596 OPERATING AUTHORITY : MUNICIPAL

TREATMENT : EXTENDED AERATION WATERCOURSE : MUSKRAT RIVER

MAJOR BASIN : GREAT LAKES
MINOR BASIN : OTTAWA RIVER PHOSPHORUS REMOVAL - CONTINUOUS

DESIGN CAPACITY : 0.68 1000 m3 IJC DESIGNATION : NON IJC

POPULATION SERVED: 1035

1987	AVG DAY	1	5 DA	Y BOD		1	SUSPEN	DED SOLI	DS	1 1	TOTAL PHO	SPHORUS
1	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	0.555	1 44.0	3.6		1.998	   61.0	11.0		6.105	132	0.9	0.500
FEB	0.522	I ND	ND		ND	74.0	14.0		7.308			
	1.156		1.2		5317	<b>1</b> 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	9.0			■ Designer	1.0	0.522
MAR	1.130	24.0   65.0	2.0		1.387				10.404	· Charles	0.8	0.867
APR		)			2.540		13.0		16.510		0.6	0.724
MAY	0.824	50.0	10.0		8.240		8.0		6.592	A por son	0.8	0.643
JUN	0.860	36.0	1.5		1.290		7.3		6.278		0.7	0.568
JUL	0.595	66.0	1.0		0.595	78.0	6.3		3.748	5.1	1.0	0.607
AUG	0.523	44.0	1.2		0.628	64.0	7.3		3.818	4.9	0.8	0.434
SEP	0.528	46.0	1.0		0.528	48.0	7.1		3.749	4.6	0.7	0.370
OCT	0.649	62.0	4.0		2.596	59.0	6.4		4.154	4.4	0.7	0.454
NOV	0.666	48.0	2.2		1.465	59.0	6.3		4.196	4.4	0.7	0.440
DEC	0.888	52.0	2.0		1.776	60.0	6.9		6.127	3.8	0.9	0.773
AVERAG	GE: 0.753	1 49.0	2.7		2.095	1 59.0	8.5		6.582	1 4 2	0.8	0.575
	VATIONS:12	1 11	11		2.073	1 12	12		0.302	1 12	12	0.575
EXCEE	DANCES	i				i	55 <del></del>			i	1.=/	
NO OF	SAMPLES	11	11			50	64			49	49	

COMPLIANCE : CRITERIA : NOTE :

> BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS BOD - 25 mg/l SS - 25 mg/l BOD - YES TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - YES

\* - EXCEEDS EFFLUENT CRITERIA TP - YES TP - 1.0 mg/l ND - NO DATA

ANTICIPATED REMEDIAL MEASURES START DATE END DATE **COMPLIANCE** FUNDING UNDER REVIEW 87/02/01 87/06/30 COLLECTION SYSTEM DEFICIENCY UNDER STUDY 87/01/01 88/01/31 88/01/31

MUNICIPALITY : CORNWALL

PLANT : CORNWALL WPCP

WORKS NUMBER : 110000132 TREATMENT : PRIMARY

PHOSPHORUS REMOVAL - CONTINUOUS

REGION : SOUTHEAST DISTRICT : CORNWALL

OPERATING AUTHORITY : MINISTRY

WATERCOURSE

: ST. LAWRENCE RIVER

MAJOR BASIN

: GREAT LAKES

MINOR BASIN

: ST. LAWRENCE RIVER

IJC DESIGNATION : DIRECT

DESIGN CAPACITY : 54.55 1000 m3

POPULATION SERVED: 46800

1987	AVG DAY	1	5 DA	Y BOD			SUSPEN	DED SOLI	DS	] 1	OTAL PHO	SPHORUS
	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d
JAN	l   45.540	1 110.0	58.0	47	2641.320	98.0	41.0	58	1867.140	   2.8	1.4 *	63.75
FEB	36.710	126.0	92.0	27	3377.320	149.0	59.0	60	2165.890	3.0	1.8 *	66.078
MAR	59.980	58.0	54.0	7	3238.920	109.0	38.0	65	2279.240	1.9	1.3 *	77.97
APR	48.870	59.0	45.0	24	2199.150	118.0	30.0	75	1466.100	2.0	1.2 *	58.64
MAY	44.460	80.0	47.0	41	2089.620	264.0	27.0	90	1200.420	2.9	1.2 *	53.35
JUN	46.290	64.0	28.0	56	1296.120	182.0	24.0	87	1110.960	2.6	0.8	37.03
JUL	46.680	60.0	46.0	23	2147.280	126.0	28.0	78	1307.040	2.8	0.7	32.67
AUG	40.970	ND	ND	0	ND	224.0	26.0	88	1065.220	5.3	0.7	28.67
SEP	39.540	52.0	12.0	77	474.480	185.0	20.0	89	790.800	3.8	0.7	27.67
OCT	32.550	55.0	15.0	73	488.250	189.0	19.0	90	618.450	3.5	0.9	29.29
NOV	34.940	54.0	12.3	77	429.762	154.0	15.0	90	524.100	3.3	0.8	27.95
DEC	47.660 	63.0 	15.0	76	714.900	40.0 	16.0	60	762.560	1.6 	0.6	28.59
AVERA	GE: 43.683	71.0	38.6	48 *	1736.102	153.0	28.6	78	1263.160	3.0	1.0	44.30
OBSER	VATIONS:12	11	11			1 12	12			1 12	12	
EXCEE	DANCES	1				İ				i	5	
NO OF	SAMPLES	20	19			43	43			1132	132	

COMPLIANCE :

CRITERIA :

NOTE :

BOD - NO

BOD - 50%

SS - 70%

TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS. \* - EXCEEDS EFFLUENT CRITERIA

SS - YES TP - NO

TP - 1.0 mg/l

ND - NO DATA

ANTICIPATED

REMEDIAL MEASURES

START DATE END DATE

COMPLIANCE

UNDER CONSTRUCTION

85/06/01

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

85/06/07

MUNICIPALITY : CORNWALL REGION : SOUTHEAST
PLANT : LONG SAULT WPCP DISTRICT : CORNWALL

PLANT : LONG SAULT WPCP DISTRICT : CORNWALL
WORKS NUMBER : 120000131 OPERATING AUTHORITY : MUNICIPAL

TREATMENT : CONVENTIONAL ACTIVATED SLUDGE WATERCOURSE : ST.LAWRENCE RIVER

MAJOR BASIN : GREAT LAKES

MINOR BASIN : ST. LAWRENCE RIVER

DESIGN CAPACITY : 1.36 1000 m3 IJC DESIGNATION : DIRECT

POPULATION SERVED: 1300

1987	AVG DAY	1	5 DA	Y BOD			SUSPEN	DED SOLI	DS	1 1	TOTAL PHO	SPHORUS
	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d
JAN	0.968	1 110.0	40.0		38.720	98.0	41.0		39.688	   4.8	3.9	3.77
FEB	0.658	60.0	51.0		33.558	79.0	19.0		12.502	6.2	4.3	2.83
MAR	1.276	82.0	27.5		35.090	48.0	34.5		44.022	4.1	3.1	3.96
APR	0.965	35.0	26.0		25.090	69.0	21.0		20.265	2.6	2.4	2.31
MAY	0.827	20.0	12.0		9.924	41.0	18.0		14.886	3.3	3.0	2.47
JUN	0.653	65.0	7.9		5.159	82.0	15.1		9.860	4.4	2.8	1.85
JUL	1.063	80.0	3.6		3.827	121.0	9.2		9.780	5.6	2.7	2.89
AUG	0.834	42.0	12.0		10.008	42.0	14.0		11.676	2.2	1.4	1.19
SEP	0.820	185.0	7.2		5.904	271.0	8.0		6.560	7.0	3.2	2.64
OCT	0.965	ND	ND		ND	ND	ND		ND	ND	ND	ND
NOV	1.332	ND ND	ND		ND	ND	ND		ND	ND	ND	ND
DEC	1.900 	56.0 	3.0		5.700	82.0	9.6		18.240	4.4	2.9	5.43
AVERA	GE: 1.022	74.0	19.0		17.298	93.0	18.9		18.748	   4.5	3.0	2.93
	VATIONS: 12 DANCES	10 	10			10	10			10 	10	
10 OF	SAMPLES	1 12	12			12	12			1 12	12	

COMPLIANCE : CRITERIA : NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

BOD - YES BOD - 25 mg/l TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - YES SS - 25 mg/l \* - EXCEEDS EFFLUENT CRITERIA

TP - YES TP - NONE ND - NO DATA

REMEDIAL MEASURES START DATE END DATE COMPLIANCE

MUNICIPALITY: DEEP RIVER

PLANT: DEEP RIVER WPCP

WORKS NUMBER: 120000612

TREATMENT: PRIMARY

DISTRICT : OTTAWA
OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : OTTAWA RIVER
MAJOR RASIN : OPEAT LAKES

: SOUTHEAST

REGION

MAJOR BASIN : GREAT LAKES
MINOR BASIN : OTTAWA RIVER
IJC DESIGNATION : NON IJC

DESIGN CAPACITY : 2.18 1000 m3

POPULATION SERVED: 4230

1987	AV	G DAY	1		5 DA	Y BOD		l	SUSPEN	DED SOLI	DS	1 1	OTAL PHO	SPHORUS
	F	LOW	1	NF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(100	0 m3/d)	(m	g/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	ĺ	1.531	3	10.0	98.0	68	150.038	   608.0	46.0	92	70.426	  18.0	5.8	8.88
FEB	ĺ	1.445	1	ND	ND	0	ND	141.0	24.0	83	34.680	8.8	4.2	6.069
MAR	1	2.045	1	80.0	49.0	39	100.205	135.0	38.0	72	77.710	6.6	4.3	8.69
APR	1	1.495	1	ND	ND	0	ND	190.0	43.0	77	64.285	9.1	3.8	5.696
MAY	1	1.836	1	ND	ND	0	ND	ND ND	ND	0	ND	ND	ND	ND
JUN	l	1.536	1	90.0	55.0	39	84.480	95.0	46.0	52	70.656	22.3	3.8	5.85
JUL	1	1.691	1	60.0	52.0	13	87.932	72.0	80.0	0	135.280	4.5	4.6	7.69
AUG	1	4.909	1	88.0	19.0	78	93.271	86.0	29.0	66	142.361	5.8	3.5	16.93
SEP	1	1.486	1	54.0	32.0	41	47.552	108.0	50.0	54	74.300	4.9	4.1	6.01
OCT	1	1.659	1	72.0	38.0	47	63.042	80.0	27.0	66	44.793	6.0	4.4	7.21
NOV	I	1.572	1	15.0	50.0	57	78.600	96.0	63.0	34	99.036	5.6	3.8	6.02
DEC	 	1.895	1	80.0	44.0	45	83.380	98.0 	44.0	55	83.380	7.9 	3.6	6.74
AVERA	GE:	1.925	   1	05.0	48.6	47	87.611	155.0	44.5	65	81.537	9.0	4.2	7.80
OBSER'		NS:12 S	 	9	9			11 	11			i 11	11	
NO OF	SAMP	LES	ĺ	9	9			11	11			1 10	11	

COMPLIANCE : CRITERIA : NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
BOD - YES BOD - 30% TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - YES SS - 50% TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENT

\* - EXCEEDS EFFLUENT CRITERIA

TP - YES TP - NONE ND - NO DATA

REMEDIAL MEASURES ANTICIPATED

START DATE END DATE COMPLIANCE

MUNICIPALITY : DELORO REGION : SOUTHEAST
PLANT : DELORO WPCP DISTRICT : KINGSTON
WORKS NUMBER : 120000970 OPERATING AUTHORITY : MUNICIPAL
TREATMENT : COMMUNAL SEPTIC TANK WATERCOURSE : MOIRA RIVER

MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ONTARIO

IJC DESIGNATION : INDIRECT

DESIGN CAPACITY : 0.38 1000 m3

POPULATION SERVED : 231

1987	AV	G DAY	l	5 DA	Y BOD		1	SUSPEN	DED SOLI	DS	1 1	OTAL PHO	SPHORUS
	F	LOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(100	0 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d
JAN	ı	ND	   102.0	142.0	0	ND	   110.0	110.0	0	ND	1 6.2	5.8	ND
FEB	i	ND	110.0	134.0	0	ND	144.0	82.0	43	ND	136.0	6.3	ND
MAR	i	ND	36.0	75.5	0	ND	69.0	44.0	36	ND	2.8	3.7	ND
APR	i	ND	ND	ND	0	ND	ND	ND	0	ND	ND	ND	ND
MAY	ĺ	ND	28.0	25.0	11	ND	34.0	18.0	47	ND	4.7	2.5	ND
JUN	1	ND	56.0	123.0	0	ND	64.0	53.0	17	ND	5.9	6.4	ND
JUL	ĺ	ND	176.0	112.0	36	ND	122.0	66.0	46	ND	5.3	6.7	ND
AUG	1	ND	ND	ND	0	ND	ND	ND	0	ND	ND	ND	ND
SEP	1	ND	105.0	88.0	16	ND	134.0	95.5	29	ND	6.9	7.0	ND
OCT	ı	ND	120.0	60.0	50	ND	109.0	83.0	24	ND	9.7	6.8	ND
NOV	1	ND	ND	ND	0	ND	ND	ND	0	ND	ND	ND	ND
DEC	ļ	ND	40.0	9.0	78	ND	42.0	9.6	77	ND	2.5 	1.7	ND
AVERA	CE ·	0.000	1 86.0	85.4	38	0.000	1 92.0	62.3	40 *	0.000	18.9	5.2	0.00
	VATIO	teries teres	1 9	9	30	0.000	1 92.0	9	40 -	0.000	1 9	9	0.00
	DANCE	35	i	**			i	**				•	
NO OF	SAMP	LES	1 13	12			13	12			13	12	

COMPLIANCE : CRITERIA : NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

BOD - YES BOD - 30% TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - NO SS - 50% \* - EXCEEDS EFFLUENT CRITERIA

TP - YES TP - NONE ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
CONSTRUCTION COMPLETED		87/12/31	89/12/31
COLLECTION SYSTEM DEFICIENCY UNDER STUDY	88/07/01	88/12/31	
SEWER SEPARATION UNDERWAY	89/07/01	89/07/31	
SEWER REPAIR UNDERWAY	89/07/01	89/07/31	
SEWER REPLACEMENT UNDERWAY	89/07/01	89/07/31	
FACILITY OPERATIONAL		1987	1989

MUNICIPALITY : DESERONTO REGION : SOUTHEAST
PLANT : DESERONTO WPCP DISTRICT : KINGSTON
WORKS NUMBER : 110000980 OPERATING AUTHORITY : MINISTRY

TREATMENT : EXTENDED AERATION WATERCOURSE : BAY OF QUINTE

PHOSPHORUS REMOVAL-CONTINUOUS MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ONTARIO

DESIGN CAPACITY: 1.36 1000 m3 IJC DESIGNATION: DIRECT

POPULATION SERVED: 1732

1987	AVG DAY	1	5 DA	Y BOD		1	SUSPEN	DED SOLI	DS	1 '	TOTAL PHO	SPHORUS
	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d
JAN	1.335	1 170.0	2.5		3.337	   136.0	7.9		10.546	   5.5	0.5	0.60
FEB	1.180	118.0	2.8		3.304	118.0	7.6		8.968	4.3	0.4	0.43
MAR	1.678	109.0	5.0		8.390	98.0	10.2		17.116	3.6	0.5	0.75
APR	1.690	104.0	9.0		15.210	78.0	62.0		104.780	2.8	0.6	0.94
YAP	1.111	136.0	7.1		7.888	128.0	6.6		7.333	2.7	0.5	0.53
JUN	1.116	129.0	5.0		5.580	69.0	3.7		4.129	1.7	0.3	0.32
IUL	1.186	213.0	9.4		11.148	48.0	5.5		6.523	1.6	0.5	0.54
NUG	1.182	69.0	1.4		1.655	91.0	2.5		2.955	1.8	0.4	0.49
SEP	1.296	102.0	5.0		6.480	86.0	3.2		4.147	2.2	0.5	0.59
OCT	1.320	128.0	5.2		6.864	104.0	10.0		13.200	3.3	0.4	0.5
VOV	1.516	108.0	7.0		10.612	81.0	10.4		15.766	1.5	0.3	0.39
DEC	1.837 	75.0 	9.3		17.084	49.0 	9.0		16.533	1.0 	0.4	0.6
VERA	GE: 1.371	1 122.0	5.7		8.129	90.0	11.5		17.666	1 2.7	0.4	0.57
	VATIONS:12 DANCES	12 	12			12 	12			12 	12	
O OF	SAMPLES	31	31			150	141			1111	110	

COMPLIANCE : CRITERIA : NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

BOD - YES BOD - 25 mg/L TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - YES SS - 25 mg/L \* - EXCEEDS EFFLUENT CRITERIA

TP - YES TP - 1.0 mg/l ND - NO DATA

REMEDIAL MEASURES START DATE END DATE COMPLIANCE

MUNICIPALITY : EAST HAWKESBURY REGION : SOUTHEAST DISTRICT : CORNWALL PLANT : CHUTE A BLONDEAU WPCP IN OP. 1987

WORKS NUMBER: 110003399 OPERATING AUTHORITY : MINISTRY

WATERCOURSE

MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ONTARIO

IJC DESIGNATION : DESIGN CAPACITY : 0.10 1000 m3

POPULATION SERVED: 165

TREATMENT : EXTENDED AERATION

1987	AV	G DAY	1		5 DA	Y BOD		l	SUSPEN	DED SOLI	DS	1 1	TOTAL PHO	SPHORUS
	F	LOW	1	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(100	0 m3/d)	þ	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	i	ND		ND	ND		ND	ND ND	ND		ND	ND	ND	ND
FEB	1	ND	1	ND	ND		ND	ND	76.0		ND	6.8	ND	ND
MAR	1	ND	1	56.0	59.5		ND	288.0	55.9		ND	8.8	7.3	ND
APR	1	ND	1	106.0	60.8		ND	273.0	56.4		ND	ND	ND	ND
MAY	1	ND	1	257.0	13.0		ND	315.0	106.6		ND	7.9	5.0	ND
JUN	1	ND	1	92.0	18.0		ND	197.0	41.6		ND	ND	ND	ND
JUL	l	0.032	1	83.0	12.6		0.403	148.0	26.1		0.835	8.5	6.5	0.20
AUG	1	0.015	1	169.0	5.7		0.085	212.0	16.5		0.247	5.3	4.9	0.07
SEP	1	0.042	1	89.0	7.1		0.298	222.0	12.0		0.504	8.0	5.0	0.21
OCT	1	0.069	1	107.0	14.0		0.966	403.0	9.0		0.621	10.8	6.7	0.459
NOV	1	0.072	1	92.0	12.0		0.864	109.0	8.0		0.576	7.7	5.7	0.410
DEC	] 	0.080	1	70.0	9.5		0.760	101.0	11.0		0.880	6.6 	7.0	0.556
AVERA	GE:	0.052	I	112.0	21.2		0.563	227.0	38.1 *		0.611	7.8	6.0	0.319
OBSER' EXCEE!		NS: 6 S	1	10	10			10	11			9 	8	
NO OF	SAMP	LES	1	38	38			57	58			26	27	

COMPLIANCE : CRITERIA : NOTE :

> BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS BOD - 25 mg/l SS - 25 mg/l BOD - YES

TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

\* - EXCEEDS EFFLUENT CRITERIA ND - NO DATA SS - NO

TP - YES TP - NONE

ANTICIPATED

REMEDIAL MEASURES START DATE END DATE COMPLIANCE

MUNICIPALITY : EGANVILLE REGION : SOUTHEAST PLANT : EGANVILLE WPCP DISTRICT : OTTAWA WORKS NUMBER : 110000141 OPERATING AUTHORITY : MINISTRY

TREATMENT : EXTENDED AERATION WATERCOURSE : BONNECHERE RIVER

MAJOR BASIN : GREAT LAKES
MINOR BASIN : OTTAWA RIVER

DESIGN CAPACITY : 0.76 1000 m3 IJC DESIGNATION : NON IJC

POPULATION SERVED: 1219

1987	AVG DAY	1	5 DA	Y BOD		l	SUSPEN	DED SOLI	DS	1 1	TOTAL PHO	SPHORUS
	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/d	)  (mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	0.501	1 150.0	2.3		1.152	   163.0	17.0		8.517	   6.3	0.7	0.35
FEB	0.479	143.0	9.5		4.550	130.0	6.6		3.161	5.7	0.5	0.23
MAR	0.654	111.0	2.1		1.373	112.0	4.0		2.616	5.1	0.5	0.32
APR	0.989	81.0	3.7		3.659	132.0	14.0		13.846	4.7	0.4	0.39
MAY	0.664	68.0	3.0		1.992	86.0	8.0		5.312	4.9	0.5	0.33
JUN	0.654	107.0	1.4		0.916	143.0	12.2		7.979	4.8	0.7	0.45
JUL	0.547	71.0	2.5		1.368	128.0	8.9		4.868	5.7	0.8	0.43
AUG	0.521	84.0	1.5		0.782	297.0	13.3		6.929	5.5	0.9	0.46
SEP	0.550	54.0	1.0		0.550	136.0	8.7		4.785	6.0	0.8	0.44
OCT	0.570	155.0	1.7		0.969	193.0	6.2		3.534	6.5	0.6	0.34
NOV	0.581	99.0	2.2		1.278	96.0	8.8		5.113	5.5	0.5	0.29
DEC	0.618 	122.0 	3.9		2.410	289.0 	13.0		8.034	5.5 	0.7	0.43
AVERA	GE: 0.611	104.0	2.9		1.750	159.0	10.1		6.225	1 5.5	0.6	0.37
	VATIONS:12 DANCES	12 	12			12 	12			12 	12	
NO OF	SAMPLES	j 24	24			41	41			172	192	

COMPLIANCE: CRITERIA: NOTE:

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
BOD - YES BOD - 25 mg/l TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - YES SS - 25 mg/L \* - EXCEEDS EFFLUENT CRITERIA

TP - YES TP - NONE ND - NO DATA

REMEDIAL MEASURES ANTICIPATED

START DATE END DATE COMPLIANCE

MUNICIPALITY : ERNESTOWN REGION : SOUTHEAST PLANT : AMHERSTVIEW LAGOON DISTRICT : KINGSTON

WORKS NUMBER : 110000196 OPERATING AUTHORITY : MINISTRY

TREATMENT : CONVENTIONAL LAGOON CONTINUOUS : COLLINS CR. N.CHANNEL WATERCOURSE

MAJOR BASIN MINOR BASIN : GREAT LAKES : LAKE ONTARIO

DESIGN CAPACITY : 2.39 1000 m3 IJC DESIGNATION : INDIRECT

POPULATION SERVED : 6900

		r				Ι						
HORUS	TOTAL PHOS	j 1	DS	DED SOLI	SUSPEN	ĺ		Y BOD	5 DA	1	AVG DAY	1987
LOAD	EFF	INF	LOAD		EFF	INF	LOAD		EFF	INF	FLOW	,
(kg/d)	(mg/L)	(mg/L)	(kg/d)	(%REM)	(mg/L)	(mg/L)	(kg/d)	(%REM)	(mg/L)	(mg/L)	(1000 m3/d)	
40.7/4		1 5.8	66.220		22.0	88.0	30.100		10.0	l   116.0	3.010	JAN
12.341 ND	4.1 ND	I ND	ND		ND	ND	ND		ND	l ND	3.100	FEB
16.200	3.6	15.0	63.000		14.0	68.0	85.500		19.0	78.0	4.500	MAR
15.400	3.5	1 4.2	228.800		52.0	72.0	79.200		18.0	68.0	4.400	APR
7.500	2.5	5.3			61.7	89.0	51.000		17.0	80.0	3.000	MAY
5.614	2.0	1 (FEE)	253.472		90.3	107.0	49.403		17.6	71.0	2.807	JUN
6.624	2.3	5.5	221.760		77.0	92.0	63.360		22.0	70.0	2.880	JUL
8.450	2.6	5.9	299.975		92.3	153.0	81.250		25.0	82.0	3.250	AUG
13.640	3.1	4.1	335.720		76.3	86.0	82.280		18.7	69.0	4.400	SEP
9.810	3.0	4.4	181.485		55.5	61.0	71.940		22.0	67.0	3.270	OCT
10.137	3.1	4.7	241.980		74.0	200.0	84.039		25.7	76.0	3.270	NOV
11.084	3.4	6.0	163.000		50.0	124.0	115.730		35.5	108.0	3.260	DEC
				-								
10.618	3.0	5.1	203.683		60.5 *	104.0	72.164		21.0	80.0	E: 3.429	AVERAG
	11	11			11	11			11	11	ATIONS:12   ANCES	OBSERV EXCEED
	25	25			25	25	i		25	25	SAMPLES	NO OF
	25	25			0	25				25	Order EE3	

COMPLIANCE : CRITERIA : NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

BOD - YES BOD - 30 mg/l SS - 40 mg/l TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS. SS - NO \* - EXCEEDS EFFLUENT CRITERIA

TP - YES TP - NONE ND - NO DATA

ANTICIPATED REMEDIAL MEASURES START DATE END DATE COMPLIANCE

AESTHETIC PROBLEM ONLY - NO ACTION PLANNED

MUNICIPALITY : ERNESTOWN REGION : SOUTHEAST PLANT : ODESSA WPCP DISTRICT : KINGSTON WORKS NUMBER : 110002041 OPERATING AUTHORITY : MINISTRY

TREATMENT : EXTENDED AERATION WATERCOURSE : MILLHAVEN CREEK

> PHOSPHORUS REMOVAL - CONTINUOUS MAJOR BASIN : GREAT LAKES
> MINOR BASIN : LAKE ONTARIO

DESIGN CAPACITY : 0.90 1000 m3 IJC DESIGNATION : INDIRECT

POPULATION SERVED: 973

1987	AVG DAY	1	5 DA	Y BOD		I	SUSPEN	DED SOLI	DS	Ι,	TOTAL PHO	SPHORUS
	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	0.770	74.0	6.9		5.313	64.0	16.7		12.859	   4.1	1.0	0.73
FEB	0.620	ND	ND		ND	ND	ND		ND	ND	ND	ND
MAR	1.540	20.0	7.0		10.780	21.0	17.0		26.180	1.9	0.8	1.18
APR	1.560	36.0	1.7		2.652	33.0	11.8		18.408	2.4	0.5	0.78
MAY	0.700	59.0	3.0		2.100	62.0	11.7		8.190	3.5	0.6	0.42
JUN	0.701	36.0	4.1		2.874	72.0	10.5		7.360	3.1	0.8	0.58
JUL	0.660	50.0	0.8		0.528	66.0	5.2		3.432	4.6	0.8	0.50
AUG	0.630	45.0	1.4		0.882	80.0	6.3		3.969	3.9	0.9	0.59
SEP	0.920	30.0	1.1		1.012	90.0	8.8		8.096	3.1	0.8	0.73
OCT	1.050	47.0	1.9		1.995	57.0	10.0		10.500	3.5	0.7	0.77
NOV	1.650	33.0	2.4		3.960	37.0	14.0		23.100	2.3	0.9	1.40
DEC	1.990 	62.0 	3.0		5.970	55.0 	20.5		40.795	ND 	0.6	1.21
AVERA	GE: 1.066	45.0	3.0		3.461	58.0	12.0		14.808	3.2	0.8	0.81
	VATIONS:12 DANCES	11 	11			11 	11			10 	11	
NO OF	SAMPLES	28	28			29	29			,   31	35	

COMPLIANCE : CRITERIA : NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

BOD - YES BOD - 25 mg/l TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - 25 mg/l SS - YES

\* - EXCEEDS EFFLUENT CRITERIA TP - YES TP - 1.0 mg/l ND - NO DATA

ANTICIPATED

REMEDIAL MEASURES START DATE END DATE COMPLIANCE

MUNICIPALITY : FRANKFORD

WORKS NUMBER: 110000267

PLANT : FRANKFORD WPCP

: CONTACT STABILIZATION

PHOSPHORUS REMOVAL - CONTINUOUS

REGION DISTRICT : SOUTHEAST

: KINGSTON

WATERCOURSE

OPERATING AUTHORITY : MINISTRY : TRENT RIVER

MAJOR BASIN

: GREAT LAKES

: LAKE ONTARIO

MINOR BASIN

IJC DESIGNATION : INDIRECT

DESIGN CAPACITY :

TREATMENT

1.36 1000 m3

POPULATION SERVED .

1070

1987	AV	G DAY	l	5 DA	Y BOD		l	SUSPEN	DED SOLI	DS	1	TOTAL PHO	SPHORUS
	F	LOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(100	0 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN		1.340	1 141.0	13.6		18.224	84.0	19.1		25.594	4.3	0.5	0.670
FEB	Î	1.010	160.0	14.0		14.140	77.0	18.0		18.180	4.2	0.5	0.505
MAR	Î	1.760	55.0	14.0		24.640	70.0	13.0		22.880	3.7	0.5	0.880
APR	Ì	1.950	115.0	20.0		39.000	65.0	37.0		72.150	4.0	1.0	1.950
MAY	l	1.300	179.0	29.0		37.700	110.0	41.6		54.080	5.0	0.9	1.170
JUN	ĺ	0.760	136.0	22.5		17.100	98.0	15.6		11.856	5.1	0.6	0.456
JUL	1	0.670	165.0	16.7		11.189	69.0	11.3		7.571	5.1	0.5	0.335
AUG	1	0.640	193.0	2.7		1.728	83.0	11.5		7.360	4.6	0.4	0.256
SEP	1	0.740	98.0	12.3		9.102	151.0	12.2		9.028	5.6	0.5	0.370
OCT	1	0.840	265.0	8.9		7.476	138.0	8.2		6.888	5.3	0.7	0.588
NOV	1	0.970	167.0	11.6		11.252	111.0	13.5		13.095	4.9	0.5	0.485
DEC	1	1.490	305.0 	19.0		28.310	69.0 	19.4		28.906	4.1	0.6	0.894
AVERA	GE:	1.123	1 165.0	15.4		18.322	94.0	18.4		23.132	1 4.7	0.6	0.713
		NS:12	1 12	12			1 12	12			1 12	12	
	DANCE		i	_			i				Ì	15.5	
NO OF			46	44			I 88	85			I 81	81	

COMPLIANCE :

CRITERIA :

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

\* - EXCEEDS EFFLUENT CRITERIA SS - YES SS - 25 mg/l TP - YES TP - 1.0 mg/l

BOD - 25 mg/l

ND - NO DATA

ANTICIPATED

START DATE END DATE COMPLIANCE

REMEDIAL MEASURES

BOD - YES

MUNICIPALITY : GANANOQUE : SOUTHEAST
PLANT : GANANOQUE LAGOON DISTRICT : KINGSTON
WORKS NUMBER : 110000285 OPERATING AUTHORITY : MUNICIPAL

TREATMENT : CONVENTIONAL LAGOON SEASONAL WATERCOURSE : STOCKING CR GANANOQUE R

MAJOR BASIN : GREAT LAKES

MINOR BASIN : ST. LAWRENCE RIVER

DESIGN CAPACITY: 3.27 1000 m3 IJC DESIGNATION: INDIRECT

POPULATION SERVED: 4900

1987	AVG DA	4	1	5 DA	Y BOD		ĺ	SUSPEN	DED SOLI	DS	1 1	TOTAL PHO	SPHORUS
	FLOW		INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3,	/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	4.3	00	44.0	4.8			   96.0	26.0			  10.0	1.9	
FEB	4.1	00	66.0	7.0			89.0	28.0			5.2	2.1	
MAR	5.7	00	46.0	10.0			68.0	33.0			3.5	2.7	
APR	4.7	00	32.0	5.0			74.0	10.0			2.8	1.8	
MAY	3.8	00	ND	11.9			ND	1.8			ND	1.8	
JUN	3.6	00	42.0	ND			71.0	ND			3.1	ND	
JUL	3.7	20	ND	ND			ND	ND			ND	ND	
AUG	6.4	05	62.0	ND			144.0	ND			6.1	ND	
SEP	6.8	47	36.0	12.0			12.0	32.0			3.4	2.8	
OCT	7.0	81	52.0	2.4			139.0	4.0			5.5	3.1	
NOV	8.7	73	56.0	3.6			206.0	5.6			4.2	2.9	
DEC	10.9 	10	43.0 	4.6			72.0 	10.3			2.7 	2.3	
AVERA	GE: 5.8	28	48.0	6.8		39.554	97.0	16.7		97.497	4.7	2.4	15.45
	VATIONS:1 DANCES	2	10 	9			10 	9			10 	9	
NO OF	SAMPLES		1 11	33			1 10	33			111	33	

COMPLIANCE : CRITERIA : NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

BOD - YES BOD - 30 mg/L TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - YES SS - 40 mg/l \* - EXCEEDS EFFLUENT CRITERIA

TP - YES TP - NONE ND - NO DATA

REMEDIAL MEASURES

START DATE END DATE COMPLIANCE

UNDER DISCUSSION WITH MUNICIPALITY

SEWER SEPARATION UNDERWAY

COLLECTION SYSTEM DEFICIENCY UNDER STUDY

ANTICIPATED COMPLIANCE

87/01/01 90/12/31

75/01/01 95/01/31

COLLECTION SYSTEM DEFICIENCY UNDER STUDY

ANTICIPATED COMPLIANCE

REGION : SOUTHEAST DISTRICT : OTTAWA MUNICIPALITY : GLOUCESTER PLANT : GREEN CREEK WPCP WORKS NUMBER: 120000729 OPERATING AUTHORITY : MUNICIPAL

TREATMENT : PRIMARY WATERCOURSE : OTTAWA RIVER MAJOR BASIN : GREAT LAKES
MINOR BASIN : OTTAWA RIVER PHOSPHORUS REMOVAL - CONTINUOUS

IJC DESIGNATION : NON IJC DESIGN CAPACITY : 363.68 1000 m3

POPULATION SERVED: 450000

1987	1	AVG DAY	1		5 DA	Y BOD			SUSPEN	DED SOL	IDS	1	TOTAL PHO	OSPHORUS
	ĺ	FLOW	1	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1	000 m3/d)	1	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
34,43357.44E	Γ	municipality woodshows	T	New 2007	4141500 00		Service Committe					1		
JAN	1	364.000	1	81.0	33.0	59	12012.000	81.0	29.0	64	10556.000	3.5	1.3 *	455.000
FEB	1	342.000	1	85.0	43.0	49	14706.000	81.0	33.0	59	11286.000	3.5	1.7 *	577.980
MAR		449.000	١	68.0	34.0	50	15266.000	61.0	28.0	54	12572.000	2.4	1.0	453.490
APR	1	431.000	1	64.0	29.0	55	12499.000	84.0	30.0	64	12930.000	3.2	1.0	439.620
MAY	1	386.000	1	79.0	42.0	47	16212.000	97.0	36.0	63	13896.000	3.7	2.3 *	895.520
JUN	١	389.000	1	92.0	34.0	63	13226.000	89.0	29.0	67	11281.000	3.1	2.2 *	863.580
JUL	l	420.000	1	76.0	31.0	59	13020.000	77.0	ND	100	ND	2.9	2.5 *	1033.200
AUG	١	392.000	1	69.0	37.0	46	14504.000	80.0	30.0	62	11760.000	3.3	2.8 *	1101.520
SEP	١	410.000	1	64.0	31.0	52	12710.000	88.0	32.0	64	13120.000	3.3	2.8 *	1156.200
OCT	ł	379.000	1	87.0	41.0	53	15539.000	107.0	33.0	69	12507.000	4.2	3.3 *	1250.700
NOV	ı	403.000	1	84.0	41.0	51	16523.000	108.0	42.0	61	16926.000	3.5	3.1 *	1237.210
DEC	1	438.000	ļ	73.0	46.0	37	20148.000	95.0	36.0	62	15768.000	5.3	2.6 *	1125.660
	1		T								-	<u> </u>		
AVERA	GE:	400.250	İ	77.0	36.8	52	14697.083	87.0	32.5	66	*12963.818	3.5	2.2 *	882.473
OBSER	VAT	IONS:12	1	12	12			12	11			12	12	
EXCEE	DAN	ICES	1									Ì	10	
NO OF	SA	MPLES	1	103	105			222	200			1180	182	

COMPLIANCE : CRITERIA : NOTE :

> BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS BOD - YES BOD - 50% TOTAL PHOSPHOR
> SS - 70% \* - EXCEEDS
> TP - 1.0 mg/l ND - NO DATA

TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - NO \* - EXCEEDS EFFLUENT CRITERIA

TP - NO

ANTICIPATED REMEDIAL MEASURES START DATE END DATE COMPLIANCE

ENGINEERING STUDY PHASE 87/01/01 89/12/31 90/12/31

MUNICIPALITY : GOULBOURN REGION : SOUTHEAST PLANT : MUNSTER LAGOON DISTRICT : OTTAWA

WORKS NUMBER : 120001522 OPERATING AUTHORITY : MUNICIPAL

TREATMENT : LAGOON AND SPRAY WATERCOURSE : NO DISC.TO SURFACE WATER SEASONAL DISCHARGE

: GREAT LAKES MAJOR BASIN MINOR BASIN : OTTAWA RIVER

0.36 1000 m3 DESIGN CAPACITY : IJC DESIGNATION : NON IJC

POPULATION SERVED : 1300

1987	AV	DAY	1	5 DA	Y BOD		1	SUSPEN	DED SOLI	DS	1	TOTAL PHO	SPHORUS
	FI	LOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(100	0 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d
JAN	1	ND	Į ND	ND			I ND	ND			I   ND	ND	
FEB	1	ND	ND	ND			ND	ND			ND	ND	
MAR	1	ND	ND	ND			ND	ND			ND	ND	
APR	1	ND	ND	ND			ND	ND			ND	ND	
MAY	1	ND	23.0	27.0			29.0	6.0			2.6	1.7	
JUN	1	ND	37.0	19.0			42.0	13.0			2.3	1.9	
JUL	1	ND	33.0	15.0			60.0	62.0			3.3	2.3	
AUG	l	ND	137.0	17.0			758.0	24.0			6.7	2.0	
SEP	1	ND	27.0	7.0			71.0	120.0			3.6	2.7	
OCT	1	ND	25.0	12.0			44.0	24.0			2.6	1.8	
NOV	1	ND	50.0	28.0			57.0	42.0			2.8	2.2	
DEC	1	ND	ND	ND			ND	ND			ND 	ND	
AVERA	GE:	0.000	47.0	17.9	***************************************	0.000	1 152.0	41.5 *		0.000	3.4	2.1	0.00
	VATIO		, 7 	7			7 	7			,   7 	7	
NO OF	SAMP	LES	7	7			7	7			i 7	7	

COMPLIANCE : CRITERIA : NOTE :

> BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS BOD - YES

BOD - 30 mg/l TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - NO SS - 40 mg/l \* - EXCEEDS EFFLUENT CRITERIA

TP - YES TP - NONE ND - NO DATA

ANTICIPATED REMEDIAL MEASURES START DATE END DATE COMPLIANCE

MUNICIPALITY : HAGARTY & RICHARDS

PLANT : KILLALOE STN.WPCP

WORKS NUMBER: 110001532

TREATMENT : EXTENDED AERATION

PHOSPHORUS REMOVAL - CONTINUOUS

DISTRICT

: SOUTHEAST

: OTTAWA

REGION

OPERATING AUTHORITY : MINISTRY

WATERCOURSE

: BRUDENELL CREEK

MAJOR BASIN : GREAT LAKES
MINOR BASIN : OTTAWA RIVER

DESIGN CAPACITY : 0.51 1000 m3

POPULATION SERVED :

IJC DESIGNATION : NON IJC

 OLA.	 DENTED	•
		T
-		J

	_
47	n

1987	A	VG DAY	1	5 DA	Y BOD		1	SUSPEN	DED SOLI	DS	1 1	TOTAL PHO	SPHORUS
	1 1	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(100	00 m3/d)	(mg/L	) (mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	1	0.217	   122.	3.2		0.694	1 205.0	5.6		1.215	18.7	0.7	0.152
FEB	i	0.190	205.	2.2		0.418	201.0	6.7		1.273		0.8	0.144
MAR	i	0.310	76.	3.5		1.085	168.0	10.6		100000000000000000000000000000000000000	7.7	0.8	0.242
APR	I	0.524	98.	4.1		2.148	155.0	7.5		3.930	6.7	0.8	0.403
MAY	1	0.385	61.	1.5		0.578	174.0	7.0		2.695	6.0	0.7	0.269
JUN	1	0.316	89.	1.1		0.348	190.0	9.2		2.907	5.5	0.5	0.158
JUL	I	0.209	69.	0.8		0.167	183.0	7.4		1.547	5.8	0.5	0.098
AUG	1	0.166	156.	0.9		0.149	263.0	6.3		1.046	6.1	0.4	0.066
SEP	1	0.155	125.	1.7		0.264	264.0	6.2		0.961	7.3	0.5	0.079
OCT	1	0.202	101.	2.2		0.444	230.0	9.5		1.919	6.8	0.6	0.111
NOV	1	0.256	115.	2.3		0.589	177.0	6.3		1.613	7.3	0.8	0.195
DEC	 	0.345	63.	2.6		0.897	221.0 	8.0		2.760	6.8	0.8	0.290
AVERA	GE :	0.273	1 107.	2.2		0.648	T 1 203.0	7.5		2.096	7.1	0.6	0.184
OBSER	VATIO	ONS:12	12	12			1 12	12		2.070	12	12	0.104
EXCEE!			23	23			   70	70			   71	71	

COMPLIANCE :

CRITERIA :

NOTE :

BOD - YES SS - YES

BOD - 25 mg/l ss - 25 mg/l TP - 1.0 mg/l

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

\* - EXCEEDS EFFLUENT CRITERIA ND - NO DATA

ANTICIPATED

REMEDIAL MEASURES

TP - YES

START DATE END DATE

COMPLIANCE

MUNICIPALITY : HAWKESBURY

PLANT : HAWKESBURY WPCP

REGION

: SOUTHEAST

DISTRICT

: CORNWALL

WORKS NUMBER : 110002283

OPERATING AUTHORITY : MINISTRY

: OTTAWA RIVER

TREATMENT : MODIFIED ACTIVATED SLUDGE

PHOSPHORUS REMOVAL - CONTINUOUS

WATERCOURSE

MINOR BASIN . CT-

: OTTAWA RIVER

DESIGN CAPACITY : 12.27 1000 m3

IJC DESIGNATION : NON IJC

POPULATION SERVED: 9680

1987	1	AVG DAY	1	5 DA	Y BOD		l	SUSPEN	DED SOLI	DS	i :	TOTAL PHO	SPHORUS
	1	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	10	1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN		9.169	   47.0	9.0		82.521	   58.0	14.0		128.366	130	0.9	8.252
FEB	i	8.997	84.0	50.0		449.850	38.0	10.4		93.569	Discourage and	1.7 *	15.565
MAR	i	13.639	62.0	12.0		163.668	48.0	6.0		81.834		0.8	10.911
APR	Ì	12.012	80.0	8.0		96.096	72.0	14.4		172.973	122	0.9	10.210
MAY	1	9.315	119.0	43.3		403.339	94.0	7.8		72.657	4.1	0.7	6.614
JUN	1	10.258	66.0	8.0		82.064	74.0	9.0		92.322	3.5	0.5	5.129
JUL	1	8.923	102.0	8.8		78.522	61.0	7.0		62.461	3.4	0.1	1.249
AUG	1	8.929	66.0	7.6		67.860	62.0	9.9		88.397	3.3	0.2	2.143
SEP		10.862	83.0	9.0		97.758	101.0	10.8		117.310	3.6	0.2	2.607
OCT	1	10.062	57.0	5.3		53.329	86.0	11.5		115.713	2.8	0.3	3.421
NOV	1	10.740	55.0	6.9		74.106	58.0	9.0		96.660	3.3	0.2	1.611
DEC	ı	11.316	34.0	4.0		45.264	64.0	13.0		147.108	2.8	0.1	0.566
			1				1				1		
AVER	AGE:	: 10.352	71.0	14.3		141.198	   68.0	10.2		105.781	1 3.4	0.6	5.690
OBSE	RVAT	TIONS:12	12	12			1 12	12			1 12	12	2.070
EXCE	EDA	ICES	l				ĺ				i	1	
NO O	F S/	AMPLES	77	64			88	68			I 87	73	
			1				i				The state of the s	13000	

COMPLIANCE :

CRITERIA :

NOTE :

BOD - YES

TP - NO

BOD - 25 mg/l

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - YES

SS - 25 mg/l TP - 1.0 mg/l

\* - EXCEEDS EFFLUENT CRITERIA

ND - NO DATA

ANTICIPATED

REMEDIAL MEASURES

START DATE END DATE

COMPLIANCE

DISTRICT MUNICIPALITY : IROQUOIS : SOUTHEAST : CORNWALL PLANT : IROQUOIS WPCP WORKS NUMBER: 120000159 OPERATING AUTHORITY : MUNICIPAL

TREATMENT : PRIMARY WATERCOURSE : ST. LAWRENCE RIVER

> PHOSPHORUS REMOVAL - CONTINUOUS MAJOR BASIN : GREAT LAKES

MINOR BASIN : ST. LAWRENCE RIVER

IJC DESIGNATION : DIRECT DESIGN CAPACITY : 5.00 1000 m3

POPULATION SERVED : 1212

1987	AV	G DAY	1		5 DA	Y BOD		1	SUSPEN	DED SOLI	DS	1	TOTAL PHO	SPHORUS
	F	LOW	1	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(100	0 m3/d)	10	mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN		3.891	1	ND	ND	0	ND	l ND	ND	0	ND	ND	ND	ND
FEB	1	4.082	ı	40.0	18.0	55	73.476	252.0	74.0	71	302.068	2.7	1.4 *	5.796
MAR	1	3.911	ĺ	40.0	18.0	55	70.398	252.0	74.0	71	289.414	2.7	1.4 *	5.554
APR	Ì	4.142	Ī	32.0	21.0	34	86.982	192.0	58.0	70	240.236	3.8	0.8	3.23
MAY	1	4.100	١	ND	ND	0	ND	ND ND	ND	0	ND	ND	ND	ND
JUN	1	4.532	1	ND	ND	0	ND	ND	ND	0	ND	ND	ND	ND
JUL	1	4.460	Ī	24.0	16.0	33	71.360	211.0	42.0	80	187.320	2.4	0.9	3.88
AUG	1	4.990	١	64.0	28.0	56	139.720	106.0	37.0	65	184.630	2.6	1.7 *	8.58
SEP	1	5.107	1	34.0	11.0	68	56.177	180.0	42.0	77	214.494	2.5	1.1 *	5.51
OCT	ı	4.710	1	25.0	22.7	9	106.917	163.0	136.7	16	643.857	2.4	2.3 *	10.88
NOV	1	4.410	1	46.0	21.4	53	94.374	116.0	80.0	31	352.800	2.1	1.6 *	6.83
DEC	! 	4.602	1	35.0	22.5	36	103.545	111.0 	84.5	24	388.869	1.5 	1.2 *	5.56
AVERA	GE:	4.411	Ť	38.0	19.8	44 *	89.217	   176.0	69.8	56 *	311.521	2.5	1.4 *	6.20
OBSER	VATIO	NS:12	ĺ	9	9			9	9			9	9	
EXCEE	DANCE	s	ĺ					İ				Ĭ	7	
NO OF	SAMP	LES	Ì	16	16			1 16	16			16	16	

NOTE : COMPLIANCE : CRITERIA :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

BOD - NO BOD - 50% TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

ss - 70% SS - NO \* - EXCEEDS EFFLUENT CRITERIA

TP - NO TP - 1.0 mg/l ND - NO DATA

ANTICIPATED

REMEDIAL MEASURES START DATE END DATE COMPLIANCE

OPERATION AND/OR MAINENANCE PROCEDURES BEING IMPLEMENTED 88/04/01 PHOSPHORUS REMOVAL OPERATION UNDER REVIEW

88/04/01

MUNICIPALITY : KEMPTVILLE REGION : SOUTHEAST
PLANT : KEMPTVILLE WPCP (TERTIARY PROPSED) DISTRICT : KINGSTON

WORKS NUMBER : 120000113 OPERATING AUTHORITY : MUNICIPAL

TREATMENT : PRIMARY WATERCOURSE : KEMPTVILLE CREEK

PHOSPHORUS REMOVAL-CONTINUOUS MAJOR BASIN : GREAT LAKES
MINOR BASIN : OTTAWA RIVER

DESIGN CAPACITY : 2.27 1000 m3 IJC DESIGNATION : NON IJC

POPULATION SERVED : 2400

1987	AV	G DAY	1	5 DA	Y BOD		l	SUSPEN	DED SOLI	DS	1	TOTAL PHO	SPHORUS
	F	LOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(100	0 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN		1.710	60.0	32.0	47	54.720	I   37.0	14.0	62	23.940	   3.2	1.7 *	2.907
FEB	1	1.100	185.0	45.0	76	49.500	102.0	24.0	76	26.400	5.7	2.7 *	2.970
MAR	1	2.440	80.0	34.0	58	82.960	83.0	33.0	60	80.520	6.0	3.2 *	7.710
APR		3.514	20.0	7.0	65	24.598	19.0	8.0	58	28.112	1.8	0.7	2.39
MAY	1	1.880	46.0	15.0	67	28.200	51.0	17.0	67	31.960	3.9	1.6 *	3.06
JUN	1	1.632	70.0	15.0	79	24.480	104.0	21.0	80	34.272	4.2	11.2 *	18.24
JUL	1	1.378	ND	ND	0	ND	ND	ND	0	ND	ND	ND	ND
AUG	1	0.924	44.0	17.0	61	15.708	96.0	33.0	66	30.492	4.7	3.0 *	2.72
SEP	1	1.401	74.0	24.0	68	33.624	150.0	42.0	72	58.842	6.7	3.7 *	5.22
OCT	1	1.414	60.0	28.0	53	39.592	64.0	22.0	66	31.108	4.2	2.2 *	3.13
NOV	1	1.793	66.0	13.0	80	23.309	96.0	33.0	66	59.169	5.1	1.4 *	2.49
DEC	 	3.070	ND 	ND	0	ND	ND	ND	0	ND	ND	ND	ND
AVERA	GE:	1.855	70.0	23.0	65	37.669	80.0	24.7	67 *	40.481	1 4.6	3.1 *	5.08
OBSER	VATIO	NS:12	10	10			10	10			10	10	
EXCEE	DANCE	S	1				ľ				i	9	
NO OF	SAMP	LES	10	10			10	10			I 10	10	
			1				İ				i	505	

COMPLIANCE : CRITERIA : NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

BOD - YES BOD - 50% TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - NO SS - 70% \* - EXCEEDS EFFLUENT CRITERIA

TP - NO TP - 1.0 mg/L ND - NO DATA

ANTICIPATED

REMEDIAL MEASURES START DATE END DATE COMPLIANCE

ENVIRONMENTAL ASSESSMENT PROCESS 86/01/01 94/12/01

MUNICIPALITY : KINGSTON

REGION

: SOUTHEAST

PLANT : KINGSTON WPCP (CITY)

DISTRICT

: KINGSTON

WORKS NUMBER : 120001050

OPERATING AUTHORITY : MUNICIPAL

TREATMENT : PRIMARY

PHOSPHORUS REMOVAL - CONTINUOUS

WATERCOURSE

: ST.LAWRENCE RIVER

MAJOR BASIN

: GREAT LAKES : ST. LAWRENCE RIVER

DESIGN CAPACITY : 61.37 1000 m3

MINOR BASIN

POPULATION SERVED: 67000

IJC DESIGNATION : DIRECT

4007	!	10 DAY	<b>:</b>	E	v 000		! !	OLIODE:	ara aa: .		Ι.		
1987		VG DAY	1		Y BOD		l 		DED SOLI			TOTAL PHO	
		FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(10	00 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
CP20000		1200 100200	ļ	72727 27		12 12 12 12 12 12 12 12 12 12 12 12 12 1	· · · · · ·	2721 (2)	270		I	80 70	5-00 05-005
JAN	I	61.180	91.0	20.0	78	1223.600	112.0	16.0	86	978.880	4.1	0.6	36.708
FEB	1	58.481	113.0	20.0	82	1169.620	82.0	15.0	82	877.215	5.0	0.6	35.673
MAR	1	82.425	83.0	23.0	72	1895.775	76.0	12.0	84	989.100	4.4	0.6	51.928
APR	1	80.631	83.0	17.0	80	1370.727	91.0	13.0	86	1048.203	2.8	0.4	33.865
MAY	1	54.950	71.0	22.0	69	1208.900	54.0	17.0	69	934.150	3.5	0.5	28.025
JUN	1	60.204	56.0	13.5	76	812.754	67.0	14.5	78	872.958	3.6	0.5	32.510
JUL	1	55.210	32.0	15.0	53	828.150	50.0	16.0	68	883.360	2.7	0.6	35.334
AUG	1	47.630	43.0	14.0	67	666.820	59.0	19.0	68	904.970	2.6	0.8	38.580
SEP	1	57.910	80.0	24.0	70	1389.840	94.0	30.0	68	1737.300	3.9	0.7	37.642
OCT	1	57.720	69.0	18.0	74	1038.960	116.0	14.0	88	808.080	4.0	0.4	25.397
NOV	1	71.402	50.0	14.0	72	999.628	77.0	17.0	78	1213.834	3.2	0.4	29.989
DEC	1	74.026	62.0	17.0	73	1258.442	66.0	15.0	77	1110.390	2.7	0.6	41.455
AVERA	GF:	63.481	1 69.0	18.1	72	1155.268	1 79.0	16.5	78	1029.870	1 3.5	0.6	35.592
		ONS:12	12	12		1155.200	12	12	70	1027.070	12	12	33.39
EXCEE	DANC	ES	1				l				l		
NO OF	SAMI	PLES	47	51			48	52			48	52	

COMPLIANCE :

CRITERIA :

NOTE :

BOD - YES SS - YES TP - YES

BOD - 50% SS - 70%

TP - 1.0 mg/l

TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS. \* - EXCEEDS EFFLUENT CRITERIA

ND - NO DATA

REMEDIAL MEASURES

START DATE END DATE

ANTICIPATED COMPLIANCE

UNDER DISCUSSION WITH MUNICIPALITY

SEWER SEPARATION UNDERWAY

ENGINEERING STUDY PHASE

87/01/01 88/12/31

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

80/01/01

1987

88/05/30

MUNICIPALITY: KINGSTON : SOUTHEAST
PLANT: KINGSTON WPCP (TOWNSHIP)

REGION: SOUTHEAST
: KINGSTON : KINGSTON : KINGSTON

WORKS NUMBER: 110000365 OPERATING AUTHORITY: MINISTRY

TREATMENT : CONVENTIONAL ACTIVATED SLUDGE WATERCOURSE : LAKE ONTARIO

PHOSPHORUS REMOVAL-CONTINUOUS MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ONTARIO

DESIGN CAPACITY : 25.00 1000 m3 IJC DESIGNATION : DIRECT

POPULATION SERVED: 28000

1987	AVG DAY		5 DA	Y BOD		1	SUSPEN	DED SOLI	DS	1 '	TOTAL PHO	SPHORUS
	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d
JAN	1 15.207	227.0	13.8		209.857	   159.0	7.4		112.532	   5.5	0.9	13.99
FEB	15.233	144.0	14.3		217.832	111.0	8.2		124.911	4.9	0.9	13.71
MAR	21.836	205.0	7.0		152.852	107.0	18.0		393.048	5.8	0.9	18.99
APR	21.383	159.0	9.6		205.277	116.0	15.0		320.745	4.5	0.7	14.75
MAY	15.306	265.0	3.6		55.102	320.0	4.0		61.224	6.5	0.6	9.49
JUN	15.886	235.0	4.5		71.487	176.0	5.4		85.784	5.2	0.7	11.27
JUL	15.146	308.0	6.5		98.449	245.0	6.0		90.876	4.8	1.0	14.54
AUG	15.142	218.0	4.3		65.111	169.0	4.5		68.139	5.9	1.0	14.99
SEP	18.291	209.0	4.0		73.164	178.0	7.5		137.183	4.4	0.6	11.52
OCT	17.670	194.0	6.2		109.554	181.0	8.5		150.195	5.4	0.5	8.30
NOV	22.185	76.0	7.9		175.261	95.0	7.3		161.950	3.8	0.8	16.86
DEC	23.107 	110.0 	8.2		189.477	152.0 	5.4		124.778	4.6 	0.5	11.32
AVERA	GE: 18.033	196.0	7.5		135.285	167.0	8.1		152.614	5.1	0.8	13.31
	VATIONS:12 DANCES	12 	12	*		12 	12			12 	12	
10 OF	SAMPLES	56	55			57	59			1113	117	

COMPLIANCE: CRITERIA: NOTE:

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

BOD - YES BOD - 25 mg/L TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - YES SS - 25 mg/l \* - EXCEEDS EFFLUENT CRITERIA

TP - YES TP - 1.0 mg/l ND - NO DATA

REMEDIAL MEASURES ANTICIPATED

START DATE END DATE COMPLIANCE

MUNICIPALITY : L'ORIGNAL

PLANT : L'ORIGNAL WPCP

WORKS NUMBER : 110001701

TREATMENT : EXTENDED AERATION

REGION

: SOUTHEAST

DISTRICT

: CORNWALL

OPERATING AUTHORITY : MINISTRY

WATERCOURSE

: OTTAWA RIVER

MAJOR BASIN

: GREAT LAKES

MINOR BASIN : OTTAWA RIVER

I.

IJC

DESIGN CAPACITY :

0.95 1000 m3

POPULATION SERVED :

1523

JC	DESIGNATION	:	NON	I

1987	A\	G DAY	İ	5 DA	Y BOD		i	SUSPEN	DED SOLI	DS	i i	TOTAL PHO	SPHORUS
	1	LOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(100	00 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	1	0.498	69.0	12.6		6.275	49.0	12.0		5.976	   5.9	3.2	1.594
FEB	ĺ	0.510	99.0	37.6		19.176	106.0	20.1		10.251	5.9	5.8	2.978
MAR	ı	0.913	74.0	31.2		28.486	90.0	40.2		36.703	5.3	3.8	3.488
APR	1	0.739	88.0	41.3		30.521	46.0	25.0		18.475	ND	ND	ND
MAY	1	0.611	26.0	13.0		7.943	69.0	26.0		15.886	4.0	3.9	2.371
JUN	1	0.745	95.0	37.0		27.565	60.0	44.0		32.780	6.7	4.7	3.502
JUL	1	0.623	91.0	17.6		10.965	90.0	54.4		33.891	6.2	4.3	2.698
AUG	1	0.624	96.0	21.3		13.291	82.0	51.7		32.261	5.5	4.5	2.783
SEP	I	0.741	85.0	28.5		21.119	154.0	91.7		67.950	6.3	5.9	4.394
OCT	1	0.772	32.0	63.0		48.636	56.0	10.0		7.720	3.3	3.2	2.470
NOV	1	0.876	64.0	11.0		9.636	50.0	9.0		7.884	3.9	2.7	2.365
DEC	 	0.921	51.0 	4.5		4.144	53.0 	6.5		5.987	2.9	3.0	2.717
AVERA	GE:	0.714	T 1 72.0	26.6 *		18.980	   75.0	32.6 *	í.	22.980	5.1	4.1	2.851
OBSER	OBSERVATIONS:12 EXCEEDANCES		12 	12		.5.760	1 12	12		22.700	11	11	2.051
NO OF	SAMP	LES	45	44			56	58			48	49	

COMPLIANCE :

CRITERIA :

NOTE :

BOD - NO SS - NO

TP - YES

BOD - 25 mg/l

SS - 25 mg/l

TP - NONE

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

\* - EXCEEDS EFFLUENT CRITERIA

ND - NO DATA

REMEDIAL MEASURES

START DATE END DATE

ANTICIPATED COMPLIANCE

88/01/31

UNDER DISCUSSION WITH MUNICIPALITY COLLECTION SYSTEM INPUT MONITORING

87/06/01

88/03/31

B-286

MUNICIPALITY : LANCASTER

PLANT : LANCASTER LAGOON

WORKS NUMBER : 110001925

TREATMENT : CONVENTIONAL LAGOON SEASONAL

REGION

: SOUTHEAST

DISTRICT

: CORNWALL

WATERCOURSE : FINNEY CREEK

OPERATING AUTHORITY : MINISTRY

MAJOR BASIN

: GREAT LAKES

MINOR BASIN

: ST. LAWRENCE RIVER

DESIGN CAPACITY :

0.59 1000 m3

POPULATION SERVED :

600

IJC DESIGNATION : NON IJC

1987	AVG DAY	t	5 DA	Y BOD		l	SUSPEN	DED SOLI	DS	į ·	TOTAL PHO	SPHORUS
	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	0.378	1 101.0	ND			1 126.0	ND			   6.8	ND	
FEB	0.291	86.0	ND			202.0	ND			7.2	ND	
MAR	0.624	88.0	ND			95.0	ND			17.7	ND	
APR	0.974	67.0	ND			98.0	ND			4.8	ND	
MAY	0.875	72.0	4.4			178.0	22.0			5.7	0.9	
JUN	0.985	96.0	ND			195.0	ND			7.0	ND	
JUL	0.405	88.0	ND			120.0	ND			5.6	ND	
AUG	0.296	85.0	ND			164.0	ND			6.1	ND	
SEP	0.365	88.0	ND			105.0	ND			5.2	ND	
OCT	0.308	82.0	ND			116.0	ND			5.1	ND	
NOV	0.417	71.0	5.0			88.0	21.1			4.6	1.4	
DEC	0.620 	42.0	ND			78.0 	ND			6.0 	ND	
AVERA	GE: 0.545	80.0	4.7		2.968	130.0	21.6		14.024	1 6.8	1.1	0.668
	VATIONS:12 DANCES	12 	2			12 	2			12	2	3,000
NO OF	SAMPLES	51	1			60	1			1 54	4	

COMPLIANCE :

CRITERIA :

NOTE :

BOD - YES SS - YES

BOD - 30 mg/l

SS - 40 mg/l

TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

\* - EXCEEDS EFFLUENT CRITERIA

TP - YES TP - NONE ND - NO DATA

ANTICIPATED

REMEDIAL MEASURES

START DATE END DATE

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

COMPLIANCE

MUNICIPALITY : LEEDS & LANSDOWNE FRONT REGION : SOUTHEAST PLANT : LANSDOWNE LAGOON DISTRICT : KINGSTON

WORKS NUMBER : 110001934 OPERATING AUTHORITY : MINISTRY

> MAJOR BASIN : GREAT LAKES

MINOR BASIN : ST. LAWRENCE RIVER

WATERCOURSE : NO DISC.TO SURFACE WATER

DESIGN CAPACITY : 0.33 1000 m3 IJC DESIGNATION : INDIRECT

POPULATION SERVED : 550

TREATMENT : LAGOON AND SPRAY

1987	AVG DAY	1	5 DA	Y BOD		k	SUSPEN	DED SOLI	DS	] 1	TOTAL PHO	SPHORUS
	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	0.168	62.0	ND		ND	   48.0	ND		ND	   6.9	ND	ND
FEB	0.153	134.0	ND		ND	161.0	ND		ND	8.0	ND	ND
MAR	0.243	40.0	ND		ND	31.0	ND		ND	4.0	ND	ND
APR	0.205	81.0	ND		ND	64.0	ND		ND	5.1	ND	ND
MAY	0.158	46.0	ND		ND	36.0	ND		ND	5.1	ND	ND
JUN	0.169	51.0	ND		ND	50.0	ND		ND	4.0	ND	ND
JUL	0.164	60.0	ND		ND	51.0	ND		ND	5.7	ND	ND
AUG	0.146	63.0	2.6		0.380	63.0	14.0		2.044	5.9	1.7	0.24
SEP	0.190	49.0	2.4		0.456	41.0	10.0		1.900	5.8	2.2	0.41
OCT	0.178	63.0	ND		ND	72.0	ND		ND	6.0	ND	ND
NOV	0.236	32.0	ND		ND	29.0	ND		ND	3.9	ND	ND
DEC	0.290 	72.0 	ND		ND	82.0 	ND		ND	4.5	ND	ND
AVERA	GE: 0.192	63.0	2.5		0.418	   61.0	12.0		1.972	5.4	1.9	0.32
	VATIONS:12 DANCES	12 	2			12 	2			12 	2	
NO OF	SAMPLES	23	2			29	2			23	2	

COMPLIANCE : CRITERIA : NOTE :

> BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS BOD - YES

BOD - 30 mg/l TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - YES SS - 40 mg/l \* - EXCEEDS EFFLUENT CRITERIA

TP - YES TP - NONE ND - NO DATA

ANTICIPATED

REMEDIAL MEASURES START DATE END DATE COMPLIANCE

DISTRICT MUNICIPALITY : MADOC : SOUTHEAST PLANT : MADOC LAGOON : KINGSTON

WORKS NUMBER : 110001051 OPERATING AUTHORITY : MINISTRY

TREATMENT : CONVENTIONAL LAGOON SEASONAL WATERCOURSE : DEER CREEK TO MOIRA LAKE PHOSPHORUS REMOVAL - BATCH MAJOR BASIN : GREAT LAKES

MINOR BASIN : LAKE ONTARIO

DESIGN CAPACITY : 1.36 1000 m3 IJC DESIGNATION : INDIRECT

POPULATION SERVED: 850

1987	AV	G DAY	l .	5 DA	Y BOD		I	SUSPEN	DED SOLI	DS	1	TOTAL PHO	SPHORUS
	F	LOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(100	0 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d
JAN		0.453	ND.	ND			ND	ND			   ND	ND	
FEB	1	0.545	75.0	ND			135.0	ND			4.0	ND	
MAR	١	1.045	123.0	ND			175.0	ND			6.2	ND	
APR	١	1.589	ND	7.1			ND	12.9			ND	0.3	
MAY	l	0.400	110.0	4.9			109.0	10.5			6.2	0.4	
JUN	l	0.431	127.0	ND			229.0	ND			8.1	ND	
JUL	1	0.553	142.0	ND			96.0	ND			7.7	ND	
AUG	l	0.416	96.0	ND			14.0	ND			6.6	ND	
SEP	1	0.569	106.0	ND			104.0	ND			4.8	ND	
OCT	1	0.569	28.0	ND			27.0	ND			2.3	ND	
NOV	1	0.564	60.0	8.0			57.0	34.3			2.6	0.4	
DEC	!	0.985	20.0	2.4			23.0	8.0			1.2	0.2	
	,		<del> </del>				 				] 		
AVERA	GE:	0.677	89.0	5.6		5.030	97.0	16.4		12.981	5.0	0.3	0.26
OBSER'		NS:12 :S	10 	4			10 	4			10 	4	
NO OF	SAMP	LES	12	21			12	21			1 12	21	

COMPLIANCE : CRITERIA : NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

BOD - YES BOD - 30 mg/l TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - YES SS - 40 mg/l \* - EXCEEDS EFFLUENT CRITERIA

TP - YES TP - 1.0 mg/l ND - NO DATA

ANTICIPATED REMEDIAL MEASURES START DATE END DATE COMPLIANCE

MUNICIPALITY : MARMORA

PLANT : MARMORA WPCP WORKS NUMBER: 110001863

TREATMENT : EXTENDED AERATION

PHOSPHORUS REMOVAL - CONTINUOUS

REGION

: SOUTHEAST

DISTRICT

: KINGSTON

OPERATING AUTHORITY : MINISTRY WATERCOURSE

: CROWE RIVER

MAJOR BASIN

: GREAT LAKES

MINOR BASIN : LAKE ONTARIO

DESIGN CAPACITY :

0.86 1000 m3

POPULATION SERVED : 1067

IJC DESIGNATION : INDIRECT

1987	A	VG DAY	1	5 DA	Y BOD		1	SUSPEN	DED SOLI	DS	1	TOTAL PHO	SPHORUS
	1 1	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(100	00 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d
JAN		0.543	1 175.0	4.0		2.172	   129.0	51.0		27.693	4.4	0.3	0.17
FEB	1	0.467	155.0	5.0		2.335	180.0	5.0		2.335	5.1	0.3	0.14
MAR	1	0.905	68.0	4.5		4.072	84.0	14.0		12.670	4.1	0.3	0.25
APR	1	1.189	ND	ND		ND	ND	ND		ND	3.4	0.2	0.28
MAY	1	0.504	100.0	2.0		1.008	99.0	9.0		4.536	4.5	0.7	0.34
JUN	1	0.416	117.0	1.6		0.666	131.0	6.5		2.704	5.3	ND	ND
JUL	1	0.398	138.0	ND		ND	138.0	ND		ND	5.8	0.6	0.22
AUG	1	0.348	80.0	0.6		0.209	89.0	2.0		0.696	6.1	0.5	0.17
SEP	1	0.438	132.0	2.8		1.226	204.0	5.6		2.453	5.6	0.4	0.19
OCT	1	0.614	124.0	4.0		2.456	110.0	14.0		8.596	4.9	0.4	0.25
NOV	ı	0.704	56.0	6.8		4.787	54.0	29.0		20.416	3.8	0.5	0.33
DEC		0.858	84.0 	2.0		1.716	21.0 	6.8		5.834	ND 	0.3	0.26
AVERA	GE:	0.615	T   112.0	3.3		2.065	113.0	14.3	· · · · · · · · · · · · · · · · · · ·	8.793	148	0.4	0.24
	OBSERVATIONS: 12 EXCEEDANCES		11	10			11	10		31,73	11	11	0.2
NO OF	SAME	PLES	13	12			13	12			1116	117	

COMPLIANCE :

CRITERIA :

NOTE :

BOD - YES

BOD - 25 mg/l

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - YES

SS - 25 mg/l

\* - EXCEEDS EFFLUENT CRITERIA

TP - YES TP - 1.0 mg/l ND - NO DATA

ANTICIPATED

REMEDIAL MEASURES

START DATE END DATE

COMPLIANCE

MUNICIPALITY : MERRICKVILLE REGION : SOUTHEAST PLANT : MERRICKVILLE WPCP DISTRICT : KINGSTON WORKS NUMBER : 110001729 OPERATING AUTHORITY : MINISTRY

TREATMENT : EXTENDED AERATION WATERCOURSE : RIDEAU RIVER

PHOSPHORUS REMOVAL-CONTINUOUS MAJOR BASIN : GREAT LAKES
MINOR BASIN : OTTAWA RIVER

DESIGN CAPACITY : 0.50 1000 m3 IJC DESIGNATION : NON IJC

POPULATION SERVED: 817

	T SERVED	. 01										
1987	I   AVG DAY	i	5 DA	Y BOD		! 	SUSPEN	DED SOLI	DS	! 	TOTAL PHO	SPHORUS
	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	   0.321	1 126.0	12.8		4.109	   82.0	15.0		4.815	   5.4	0.5	0.170
FEB	0.248	94.0	5.0		1.240	94.0	13.7		3.398	6.1	0.6	0.151
MAR	0.659	56.0	11.0		7.249	63.0	21.3		14.037	4.0	0.8	0.540
APR	0.767	46.0	16.8		12.886	56.0	26.5		20.326	3.9	1.6 *	1.250
MAY	0.426	78.0	33.8		14.399	101.0	43.8		18.659	5.9	1.7 *	0.733
JUN	0.450	60.0	22.1		9.945	102.0	25.8		11.610	4.4	0.8	0.351
JUL	0.443	93.0	12.0		5.316	131.0	37.5		16.613	6.6	1.4 *	0.607
AUG	0.334	63.0	5.2		1.737	138.0	19.0		6.346	6.4	0.6	0.190
SEP	0.399	51.0	2.8		1.117	169.0	7.9		3.152	5.2	0.3	0.132
OCT	0.417	56.0	4.5		1.876	85.0	15.4		6.422	5.8	0.4	0.183
NOV	0.528	63.0	7.0		3.696	69.0	53.5		28.248	4.5	1.6 *	0.829
DEC	0.802 	43.0 	14.0		11.228	71.0 	73.0		58.546	2.7 	2.4 *	1.957
AVERA	GE: 0.483	69.0	12.3		6.233	97.0	29.4 *		16.014	5.1	1.1 *	0.591
OBSER	VATIONS: 12	12	12			12	12			12	12	
EXCEE	DANCES	1				l				Î	5	
NO OF	SAMPLES	38	36			39	37			39	37	
		1				i				i		

COMPLIANCE : CRITERIA : NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

BOD - YES BOD - 25 mg/l TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - NO SS - 25 mg/l \* - EXCEEDS EFFLUENT CRITERIA

TP - NO TP - 1.0 mg/l ND - NO DATA

 REMEDIAL MEASURES
 START DATE
 END DATE
 ANTICIPATED COMPLIANCE

 UNDER DISCUSSION WITH MUNICIPALITY
 86/01/01
 87/08/31

 COLLECTION SYSTEM INPUT MONITORING
 88/05/01
 88/12/31
 89/12/31

 CONDUCTING TREATABILITY STUDIES
 88/10/01
 89/04/30
 89/12/31

WORKS NUMBER : 120000168 OPERATING AUTHORITY : MUNICIPAL

TREATMENT : PRIMARY WATERCOURSE : ST. LAWRENCE RIVER

CONVENTIONAL LAGOON CONTINUOUS MAJOR BASIN : GREAT LAKES
MINOR BASIN : ST. LAWRENCE RIVER

DESIGN CAPACITY : 2.27 1000 m3 IJC DESIGNATION : DIRECT

POPULATION SERVED : 2337

1987	AV	G DAY	1		5 DA	Y BOD		l	SUSPEN	DED SOLI	DS	1 1	TOTAL PHO	SPHORUS
	F	LOW	IN	IF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(100	0 m3/d)	(mg	/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d
JAN		2.698	i I	ND	ND	0	ND	I I ND	ND	0	ND	ND	ND	ND
FEB	l	2.282	1	ND	ND	0	ND	ND	ND	0	ND	ND	ND	ND
MAR	l	3.258	1	ND	ND	0	ND	ND	ND	0	ND	ND	ND	ND
APR	ľ	3.749	1	ND	ND	0	ND	ND	ND	0	ND	ND	ND	ND
YAP	l	2.814	1	ND	ND	0	ND	ND ND	ND	0	ND	ND	ND	ND
JUN	l	2.775	ı	ND	ND	0	ND	ND	ND	0	ND	ND	ND	ND
UL	l	2.607	19	0.0	13.0	93	33.891	127.0	12.0	91	31.284	3.4	1.4	3.62
UG	l	2.730	1	9.0	9.8	48	26.754	29.0	10.0	66	27.300	1.4	0.9	2.43
EP	ſ	2.571	2	8.0	24.0	14	61.704	48.0	50.0	0	128.550	2.4	3.8	9.87
CT	I	2.760	1	ND	ND	0	ND	ND	ND	0	ND	ND	ND	ND
VOV	l	2.811	1	0.0	6.0	40	16.866	6.0	7.6	0	21.364	0.9	0.8	2.13
DEC	 	3.365	1 	0.0	14.0	0	47.110	20.0	36.0	0	121.140	0.9 	0.8	2.79
VERA	GE:	2.868	T   5	1.0	13.4	49	37.265	46.0	23.1	78	65.928	1 1.8	1.5	4.17
	VAT IO	NS:12 S	1	5	5			5 	5			5 	5	
O OF	SAMP	LES	1	5	5			5	5			5	5	

COMPLIANCE : CRITERIA : NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

BOD - INSUFFICIENT DATA BOD - 30% TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - INSUFFICIENT DATA SS - 50% \* - EXCEEDS EFFLUENT CRITERIA

TP - INSUFFICIENT DATA TP - NONE ND - NO DATA

REMEDIAL MEASURES

START DATE

COMPLIANCE

ANTICIPATED

COMPLIANCE

CONSTRUCTION COMPLETED 89/10/31 89/12/31

MARGINAL FAILURE-CONTINUE TO MAINTAIN AND MONITOR LEVEL OF FAILED PARAMETER 87/06/01 89/06/30

MUNICIPALITY : NAPANEE

PLANT : NAPANEE WPCP

WORKS NUMBER : 120000186

TREATMENT : CONVENTIONAL ACTIVATED SLUDGE

PHOSPHORUS REMOVAL - CONTINUOUS

DISTRICT

: SOUTHEAST

: KINGSTON

WATERCOURSE

OPERATING AUTHORITY : MUNICIPAL : NAPANEE RIVER

MAJOR BASIN

: GREAT LAKES

MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ONTARIO

DESIGN CAPACITY :

9.09 1000 m3

POPULATION SERVED: 7500

IJC DESIGNATION : INDIRECT

1987	AVO	DAY	I	5 DA	Y BOD		1	SUSPEN	DED SOLI	DS	1 .	TOTAL	PHOS	PHORUS
	FL	.OW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF		LOAD
	(1000	) m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/l	.)	(kg/d)
JAN	!   1	0.000	l l 135.0	5.6		56.000	   116.0	12.0		120.000	   9.0	1.1	*	11.000
FEB	i 1	0.000	1114.0	9.3		93.000	82.0	13.5		135.000	•	1.0		10.000
MAR	į i	0.000	51.0	17.4		174.000		59.8		598.000	• 105,550 55	3.1		31.100
APR	i	9.500	77.0	20.0		190.000	80.0	20.0		190.000	•	0.9		8.360
MAY	İ	5.948	121.0	15.0		89.220	112.0	16.0		95.168	•	0.7		4.104
JUN	Ī	6.717	79.0	31.0		208.227	106.0	28.7		192.778	(S)	0.7		4.635
JUL	1	5.753	108.0	23.3		134.045	115.0	14.5		83.419	(CT-1)	0.9		5.063
AUG	1	5.199	58.0	15.0		77.985	100.0	14.8		76.945		1.0		5.095
SEP	1	5.618	68.0	17.0		95.506	115.0	19.3		108.427	110.0	1.3	*	7.303
OCT	1	4.555	112.0	26.5		120.707	205.0	40.3		183.566		2.4		10.704
NOV	1	6.125	79.0	48.6		297.675	131.0	84.7		518.788	(취) - 뉴프	2.8	*	16.905
DEC	1	9.657	92.0	32.3		311.921	126.0	23.3		225.008	5.9	1.5	*	14.389
	1		ļ								1			
AVERA	GE:	7.423	91.0	21.8		154.024	   112.0	28.9 *		210.592	l 18.3	1.4	*	10.722
OBSER	VATION	IS:12	12	12			1 12	12			1 12	12		
EXCEE	DANCES	6	Ì				i				i	6		
NO OF	SAMPL	.ES	42	44			43	46			1 43	46		
			ì				i				1 · · ·			

COMPLIANCE :

CRITERIA:

NOTE :

BOD - YES SS - NO

TP - NO

BOD - 25 mg/l SS - 25 mg/l

TP - 1.0 mg/l

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

\* - EXCEEDS EFFLUENT CRITERIA

ND - NO DATA

REMEDIAL MEASURES	START DATE	END DATE	ANTICIPATED COMPLIANCE
FINAL DESIGN PHASE	88/02/01	88/06/30	
FUNDING UNDER REVIEW	88/02/01	88/06/30	
UNDER CONSTRUCTION	88/06/01	88/12/31	88/12/31
CONSTRUCTION COMPLETED	88/06/01	88/12/31	88/12/31
ENFORCING BY-LAWS	88/02/01	88/06/30	,,,
UPGRADING COMPLETED	88/06/01	88/12/31	88/12/31

: SOUTHEAST

MUNICIPALITY : NEPEAN REGION

PLANT : CARLTON LODGE WPCP DISTRICT : OTTAWA WORKS NUMBER : 120003307 OPERATING AUTHORITY : MUNICIPAL

TREATMENT : EXTENDED AERATION WATERCOURSE : RIDEAU RIVER MAJOR BASIN : GREAT LAKES
MINOR BASIN : OTTAWA RIVER

DESIGN CAPACITY : 0.04 1000 m3 IJC DESIGNATION : NON IJC

POPULATION SERVED: 170

1987	AVG DAY	1	5 DA	Y BOD		1	SUSPEN	DED SOLI	DS	1 1	OTAL PHO	SPHORUS
	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	0.108	83.0	5.0		0.540	   110.0	15.0		1.620	5.3	3.6	0.384
FEB	0.114	106.0	6.0		0.684	75.0	49.0		5.586	7.6	5.5	0.630
MAR	0.118	91.0	10.0		1.180	105.0	20.0		2.360	5.2	2.2	0.264
APR	0.118	101.0	4.0		0.472	208.0	10.0		1.180	5.2	3.2	0.380
MAY	0.128	208.0	4.0		0.512	113.0	13.0		1.664	7.5	2.5	0.31
JUN	0.124	237.0	13.0		1.612	133.0	29.0		3.596	5.7	3.2	0.39
JUL	0.120	67.0	2.0		0.240	67.0	9.0		1.080	4.7	3.6	0.43
AUG	0.112	132.0	2.0		0.224	105.0	10.0		1.120	3.6	4.7	0.52
SEP	0.135	84.0	3.0		0.405	60.0	19.0		2.565	10.1	5.7	0.76
OCT	0.130	154.0	100.0		13.000	151.0	45.0		5.850	5.1	4.3	0.55
NOV	0.215	258.0	22.0		4.730	70.0	37.0		7.955	2.6	4.8	1.02
DEC	0.179 	201.0 	3.0		0.537	152.0 	21.0		3.759	3.1	3.5	0.634
AVERA	GE: 0.133	144.0	14.5		2.011	112.0	23.1		3.195	5.5	3.9	0.526
	VATIONS:12 DANCES	12 	12			12 	12		s 1995 men en en en en en en en en en en en en e	12	12	
NO OF	SAMPLES	39	36			72	65			45	50	

CRITERIA : COMPLIANCE : NOTE :

> BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS BOD - 25 mg/l BOD - YES

TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - YES \* - EXCEEDS EFFLUENT CRITERIA

TP - YES TP - NONE ND - NO DATA

ANTICIPATED

REMEDIAL MEASURES START DATE END DATE COMPLIANCE

MUNICIPALITY : NEPEAN

PLANT : WATTS CREEK WPCP

WORKS NUMBER: 120000701

TREATMENT : CONVENTIONAL ACTIVATED SLUDGE

PHOSPHORUS REMOVAL - CONTINUOUS

REGION

: SOUTHEAST

DISTRICT

: OTTAWA

OPERATING AUTHORITY : MUNICIPAL

WATERCOURSE

: WATTS CREEK

MAJOR BASIN

: GREAT LAKES MINOR BASIN : OTTAWA RIVER

DESIGN CAPACITY :

29.54 1000 m3

POPULATION SERVED : 52500

IJC DESIGNATION

: NON IJC

1987	A	VG DAY	1	5 DA	Y BOD		1	SUSPEN	DED SOLI	DS	1	TOTAL PHO	SPHORUS
	1	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(100	00 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	1	22.700	   121.0	9.0		204.300	1 1/3 0	11.0		249.700	1 , 4	0.9	20 /70
FEB	1	20.400	1 111.0	9.0		183.600	1 142.0	12.0			il car er		20.430
MAR	1	43.900	59.0	8.0		351.200	84.0	9.0		244.800 395.100	Si essi in	1.0 0.7	20.196
APR	i	42.100	54.0	6.0		252.600	1 87.0	10.0		421.000	Frank S	0.7	30.730
MAY	i	25.000	85.0	10.0		250.000	1 131.0	11.0		275.000	• 1500000	0.7	31.154 21.750
JUN	i	25.400	1 104.0	8.0		203.200		7.0		1000 000 000 000 000 000 000 000 000 00	1 4.5	0.8	20.574
JUL	i	29.900	79.0	11.0		328.900		11.0		328.900		0.9	26.312
AUG	i	25.500	87.0	8.0		204.000	i canada	12.0		306.000		1.0	24.225
SEP	i	21.400	93.0	11.0		235.400	123.0	15.0		321.000	8	0.9	19.474
OCT	Ì	26.100	89.0	13.0		339.300	121.0	11.0		287.100	■ 2000	0.9	22.968
NOV	1	28.700	97.0	17.0		487.900	114.0	14.0		401.800	4.2	0.8	23.821
DEC	I	38.500	50.0	21.0		808.500	93.0	15.0		577.500	3.3	0.8	31.570
	1		1				1				l		
AVERA	GE:	29.133	   86.0	10.9		320.742	   116.0	11.5		332.142	4.1	0.9	24.434
OBSER	VATIO	ONS:12	1 12	12			1 12	12		3321142	1 12	12	24.434
EXCEE	DANC	ES	I				i					10 <del>5-7</del> 7	
NO OF	SAMI	PLES	136	134			241	236			232	234	

COMPLIANCE :

CRITERIA :

NOTE :

BOD - YES

BOD - 25 mg/l

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

SS - YES SS - 25 mg/l TP - YES TP - 1.0 mg/l

TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS. \* - EXCEEDS EFFLUENT CRITERIA

ND - NO DATA

ANTICIPATED

REMEDIAL MEASURES

START DATE END DATE

COMPLIANCE

MUNICIPALITY : OSNABRUCK

PLANT : INGLESIDE WPCP WORKS NUMBER : 120000140

TREATMENT : PRIMARY

: SOUTHEAST

DISTRICT

: CORNWALL

WATERCOURSE

OPERATING AUTHORITY : MUNICIPAL : ST. LAWRENCE RIVER

MAJOR BASIN

: GREAT LAKES

: ST. LAWRENCE RIVER

MINOR BASIN

DESIGN CAPACITY :

1.57 1000 m3

POPULATION SERVED :

1500

IJC DESIGNATION : DIRECT

-	1		T										
1987	AV	G DAY		5 DA	Y BOD		1	SUSPEN	DED SOLI	DS	1	TOTAL PHO	SPHORUS
	F	LOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(100	0 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	l I	ND	88.0	54.2	38	ND	   79.0	48.4	39	ND	   5.1	4.0	ND
FEB	i	ND	85.0	24.0	72	ND	53.0	21.0	60	ND	5.6	4.2	ND
MAR	ĺ	2.232	54.0	50.0	7	111.600	63.0	40.0	37	89.280	3.7	3.1	6.986
APR	ľ	1.872	76.0	45.0	41	84.240	191.0	60.0	69	112.320	7.4	3.9	7.320
MAY	1	0.768	160.0	49.0	69	37.632	199.0	114.0	43	87.552	5.9	3.9	2.980
JUN	1	0.793	92.0	34.0	63	26.962	140.0	42.0	70	33.306	4.8	3.6	2.855
JUL	l	0.950	80.0	25.0	69	23.750	148.0	30.0	80	28.500	6.7	3.8	3.572
AUG	1	0.828	72.0	54.0	25	44.712	72.0	64.0	11	52.992	3.6	3.8	3.105
SEP	1	1.129	44.0	22.0	50	24.838	117.0	45.0	62	50.805	4.1	2.7	3.082
OCT	1	1.132	104.0	55.0	47	62.260	246.0	73.0	70	82.636	6.8	4.4	4.992
NOV	1	1.399	96.0	44.0	54	61.556	414.0	84.0	80	117.516	10.3	3.8	5.288
DEC	1	1.957	68.0 	58.0	15	113.506	62.0 	33.0	47	64.581	4.8	2.2	4.305
AVERA	GE:	1.306	85.0	42.9	46	59.106	1 149.0	54.5	56	71.949	1 5.7	3.6	4.449
OBSER'			12 	12			12 1	12	,5		12	12	4.447
NO OF	SAMP	LES	15	16			1 15	16			1 15	16	

COMPLIANCE :

CRITERIA :

NOTE :

BOD - YES

BOD - 30%

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - YES SS - 50% TP - YES TP - NONE

\* - EXCEEDS EFFLUENT CRITERIA

ND - NO DATA

ANTICIPATED

REMEDIAL MEASURES

START DATE END DATE

COMPLIANCE

MUNICIPALITY : PEMBROKE

PLANT : PEMBROKE WPCP

WORKS NUMBER: 120000630

TREATMENT : PRIMARY

PHOSPHORUS REMOVAL - CONTINUOUS

REGION

: SOUTHEAST

DISTRICT

: OTTAWA

OPERATING AUTHORITY : MUNICIPAL

WATERCOURSE

: OTTAWA RIVER

MAJOR BASIN MINOR BASIN : OTTAWA RIVER

: GREAT LAKES

DESIGN CAPACITY :

18.18 1000 m3

IJC DESIGNATION

: NON IJC

POPULATION SERVED: 17000

1987	A	VG DAY	1	5 DA	Y BOD		l	SUSPEN	DED SOLI	DS	1 1	TOTAL PHO	SPHORUS
	l	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(10	000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	1	13.236	ND	ND	0	ND	   183.0	18.6	90	246.190	2.9	0.6	8.20
FEB	1	13.012	ND	ND	0	ND	182.0	17.4	90	226.409	3.3	0.5	6.116
MAR	1	13.578	65.0	ND	100	ND	175.0	17.6	90	238.973	2.5	0.7	8.826
APR	1	14.304	40.0	5.0	88	71.520	174.0	19.0	89	271.776	1.9	0.7	10.013
MAY	1	13.979	160.0	35.0	78	489.265	158.0	17.5	89	244.632	2.6	0.7	9.78
JUN	1	13.697	145.0	24.2	83	331.467	148.0	20.4	86	279.419	3.3	0.7	9.58
JUL	1	13.116	171.0	69.3	59	908.939	142.0	17.1	88	224.284	3.4	0.7	9.18
AUG	1	13.239	170.0	30.0	82	397.170	148.0	18.7	87	247.569	3.3	0.7	9.26
SEP	1	13.619	143.0	33.3	77	453.513	135.0	16.8	88	228.799	3.2	0.7	9.53
OCT	ı	12.585	193.0	63.8	67	802.923	134.0	17.7	87	222.755	2.8	0.7	8.80
NOV	1	12.871	170.0	41.0	76	527.711	109.0	15.9	85	204.649	3.1	0.7	9.01
DEC	ļ	13.215	125.0	25.0	80	330.375	105.0	14.8	86	195.582	3.1	0.7	9.25
	1			-									
AVERA	GE:	13.371	138.0	36.3	79	479.209	149.0	17.6	88	235.920	2.9	0.7	8.96
OBSER'		ONS:12	10 	9			12 	12			12 	12	
NO OF	SAM	PLES	32	31			730	730			730	735	

COMPLIANCE :

CRITERIA :

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS. \* - EXCEEDS EFFLUENT CRITERIA

TP - YES ND - NO DATA

ss - 70% TP - 1.0 mg/l

BOD - 50%

ANTICIPATED

REMEDIAL MEASURES

BOD - YES

SS - YES

START DATE END DATE

COMPLIANCE

MUNICIPALITY : PERTH

PLANT : PERTH LAGOON WORKS NUMBER: 120000881

TREATMENT : CONVENTIONAL LAGOON CONTINUOUS

PHOSPHORUS REMOVAL - CONTINUOUS

REGION

: SOUTHEAST

DISTRICT

: OTTAWA

OPERATING AUTHORITY : MUNICIPAL

WATERCOURSE

: TAY RIVER

MAJOR BASIN

: GREAT LAKES

MINOR BASIN

: OTTAWA RIVER

DESIGN CAPACITY :

5.90 1000 m3

IJC DESIGNATION

: NON IJC

POPULATION SERVED :

5648

1987	AVG DA	Y	ı	5 DA	Y BOD		1	SUSPEN	IDED SOLI	DS	1 1	OTAL PHO	SPHORUS
	FLOW		INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3	/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	I ND		80.0	54.0		ND	75.0	18.0		ND	4.0	0.6	ND
FEB	ND		65.0	40.0		ND	89.0	18.0		ND	2.6	0.9	ND
MAR	ND ND		135.0	37.0		ND	76.0	12.0		ND	1.9	1.1 *	ND
APR	ND		38.0	6.0		ND	61.0	7.0		ND	2.6	0.4	ND
MAY	ND		48.0	8.0		ND	93.0	19.0		ND	3.1	0.7	ND
JUN	ND		60.0	15.0		ND	80.0	27.0		ND	2.3	0.9	ND
JUL	l ND		350.0	6.0		ND	341.0	8.0		ND	4.8	0.3	ND
AUG	ND		122.0	4.8		ND	320.0	11.0		ND	2.6	0.2	ND
SEP	ND		64.0	6.8		ND	94.0	9.6		ND	2.5	0.6	ND
OCT	ND		58.0	11.0		ND	86.0	14.0		ND	2.9	0.8	ND
NOV	ND		60.0	7.2		ND	96.0	10.0		ND	2.2	0.4	ND
DEC	ND 		36.0 	8.0		ND	84.0	11.0		ND	2.1	0.4	ND
AVERA	GE: 0.0	00	07.0	17.0		2 000	1 425 4				<del> </del>		
			93.0	17.0		0.000	125.0	13.7		0.000	2.8	0.6	0.000
	VATIONS: DANCES	U	12	12			12	12			12	12	
	SAMPLES		l l 12	12			1 42					1	
NO UF	SAMPLES		12	12			12	12			12	12	

COMPLIANCE :

CRITERIA :

NOTE :

BOD - YES SS - YES BOD - 30 mg/l

SS - 40 mg/l

TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

\* - EXCEEDS EFFLUENT CRITERIA

TP - NO

TP - 1.0 mg/l

ND - NO DATA

ANTICIPATED

REMEDIAL MEASURES

START DATE END DATE

COMPLIANCE

NEW EQUIPMENT IS BEING INSTALLED

87/09/01

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

88/01/31

88/01/31

DISTRICT MUNICIPALITY : PETAWAWA : SOUTHEAST PLANT : PETAWAWA WPCP : OTTAWA WORKS NUMBER : 120000587 OPERATING AUTHORITY : MINISTRY

TREATMENT : PRIMARY WATERCOURSE : OTTAWA RIVER

> PHOSPHORUS REMOVAL - CONTINUOUS MAJOR BASIN : GREAT LAKES MINOR BASIN : OTTAWA RIVER

IJC DESIGNATION DESIGN CAPACITY : 4.54 1000 m3 : NON IJC

POPULATION SERVED: 11300

1987	AVG DAY	1	5 DA	Y BOD		1	SUSPEN	DED SOLI	DS	1 7	TOTAL PHO	SPHORUS
	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	   4.440	1 101.0	60.5	40	268.620	   129.0	51.1	60	226.884	   5.2	3.7 *	16.428
FEB	4.110	98.0	31.7	68	130.287	134.0	34.4	74	141.384	5.7	3.1 *	12.741
MAR	5.800	103.0	41.1	60	238.380	174.0	32.0	82	185.600	5.9	2.0 *	11.600
APR	4.980	65.0	29.0	55	144.420	152.0	12.3	92	61.254	4.3	0.7	3.486
MAY	5.300	126.0	38.4	70	203.520	158.0	12.5	92	66.250	4.5	0.7	3.710
JUN	4.410	106.0	12.0	89	52.920	142.0	11.9	92	52.479	5.8	0.7	2.95
JUL	4.540	133.0	43.6	67	197.944	168.0	29.9	82	135.746	4.3	0.8	3.40
AUG	4.820	102.0	32.0	69	154.240	151.0	15.3	90	73.746	5.0	0.7	3.37
SEP	4.850	140.0	57.0	59	276.450	107.0	15.6	85	75.660	4.5	0.7	3.39
OCT	5.060	50.0	26.3	47	133.078	78.0	8.3	89	41.998	3.8	0.4	1.87
NOV	4.940	197.0	57.0	71	281.580	183.0	23.4	87	115.596	4.8	0.6	2.96
DEC	4.280 	154.0 	50.0	68	214.000	197.0 	18.6	91	79.608	4.9	0.7	2.99
AVERA	GE: 4.794	   115.0	39.9	64	191.287	148.0	22.1	85	104.684	1 4.9	1.2 *	5.74
OBSER	VATIONS: 12	12	12			12	12			12	12	
EXCEE	DANCES	ľ				l				Ì	3	
NO OF	SAMPLES	41	41			48	48			49	50	

COMPLIANCE : CRITERIA : NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

BOD - YES BOD - 50% TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - YES ss - 70% \* - EXCEEDS EFFLUENT CRITERIA

TP - NO TP - 1.0 mg/l ND - NO DATA

ANTICIPATED REMEDIAL MEASURES START DATE END DATE COMPLIANCE

UNDER CONSTRUCTION

84/01/01 87/03/31 CONSTRUCTION COMPLETED

MUNICIPALITY : PICTON REGION : SOUTHEAST PLANT : PICTON WPCP DISTRICT : KINGSTON WORKS NUMBER : 120000667 OPERATING AUTHORITY : MUNICIPAL

TREATMENT : CONTACT STABILIZATION WATERCOURSE : PICTON BAY

PHOSPHORUS REMOVAL - CONTINUOUS MAJOR BASIN : GREAT LAKES MINOR BASIN : LAKE ONTARIO

DESIGN CAPACITY : 4.54 1000 m3 IJC DESIGNATION : DIRECT

POPULATION SERVED: 4500

1987	AVG DAY	1	5 DA	Y BOD		1	SUSPEN	DED SOLI	DS	1 1	OTAL PHO	SPHORUS
	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d
JAN	   3.215	80.0	7.0		22.505	   63.0	7.0		22.505	1 4.4	0.7	2.25
FEB	2.749	135.0	6.0		16.494	96.0	3.0		8.247	5.8	0.6	1.51
MAR	4.243	48.0	6.0		25.458	38.0	11.0		46.673	3.2	0.8	3.43
APR	4.034	70.0	4.0		16.136	93.0	7.0		28.238	4.0	0.5	1.81
MAY	2.682	114.0	10.0		26.820	151.0	22.0		59.004	7.8	0.7	1.82
JUN	2.471	108.0	8.2		20.262	137.0	20.0		49.420	5.2	1.2 *	2.84
JUL	2.422	84.0	4.1		9.930	77.0	10.0		24.220	5.0	0.7	1.79
AUG	2.237	76.0	3.0		6.711	93.0	6.0		13.422	4.5	0.6	1.32
SEP	2.158	50.0	3.8		8.200	47.0	ND		ND	4.3	0.7	1.44
OCT	1.929	108.0	6.8		13.117	90.0	6.8		13.117	6.1	0.8	1.44
NOV	2.674	56.0	4.8		12.835	58.0	4.0		10.696	3.3	0.6	1.47
DEC	3.845 	34.0 	10.0		38.450	59.0 	26.0		99.970	3.7 	1.1 *	4.07
AVERA	GE: 2.888	   80.0	6.1		18.077	84.0	11.2		34.137	1 4.8	0.7	2.10
OBSER	VATIONS: 12	12	12			12	11			1 12	12	
EXCEE	DANCES	1				i				i	2	
NO OF	SAMPLES	12	12			1 12	11			1 12	12	

COMPLIANCE : CRITERIA : NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

BOD - YES BOD - 25 mg/l TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

\$\$ - 25 mg/l SS - YES \* - EXCEEDS EFFLUENT CRITERIA

TP - NO TP - 1.0 mg/l ND - NO DATA

ANTICIPATED REMEDIAL MEASURES START DATE END DATE COMPLIANCE INPLANT SAMPLING PROGRAM IS BEING MODIFIED 88/03/01 88/04/30 88/12/31 EXISTING EQUIPMENT/OPERATION IS BEING MODIFIED 88/03/01 88/04/30 88/12/31

MUNICIPALITY : PITTSBURG

PLANT : CANA WPCP

WORKS NUMBER : 110001505

TREATMENT : EXTENDED AERATION

REGION

: SOUTHEAST

DISTRICT

: KINGSTON

OPERATING AUTHORITY : MINISTRY

WATERCOURSE

: CATARAQUI RIVER

MAJOR BASIN

: GREAT LAKES

MINOR BASIN

: ST. LAWRENCE RIVER

IJC DESIGNATION

: INDIRECT

DESIGN CAPACITY :

0.09 1000 m3

POPULATION SERVED :

108

		i				1			PA-			
1987	AVG DAY	ĺ	5 DA	Y BOD		İ	SUSPEN	IDED SOLI	DS	i	TOTAL PHO	SPHORUS
	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	   0.115	282.0	11.3		1.300	   553.0	15.0		1.725	1 8.3	2.1	0.242
FEB	0.088	81.0	8.4		0.739	234.0	10.7		0.942	1. CONT.	2.9	0.254
MAR	0.222	30.0	15.9		3.530	43.0	22.1		4.906	1000 00000000	2.9	0.644
APR	0.112	54.0	11.3		1.266	92.0	25.7		2.878	3.0	1.7	0.194
MAY	0.063	95.0	2.6		0.164	102.0	8.9		0.561	1 4.0	1.3	0.084
JUN	0.052	73.0	2.4		0.125	289.0	12.1		0.629	3.8	1.9	0.101
JUL	0.031	93.0	3.3		0.102	143.0	12.7		0.394	7.3	3.6	0.113
AUG	0.022	145.0	1.8		0.040	201.0	15.6		0.343	7.8	3.9	0.086
SEP	0.080	61.0	2.2		0.176	68.0	16.4		1.312		2.6	0.204
OCT	0.051	74.0	2.9		0.148	87.0	18.6		0.949		2.1	0.107
NOV	0.115	53.0	8.6		0.989	77.0	40.1		4.612	1 2.7	2.0	0.235
DEC	0.138 	47.0 	4.5		0.621	109.0 	19.8		2.732	Add to the same of	1.2	0.163
AVERA	GE: 0.091	91.0	6.3		0.767	166.0	18.1		1.832	1 4.5	2.4	0.202
OBSERV	ATIONS:12	12	12			1 12	12			1 12	12	

COMPLIANCE :

EXCEEDANCES NO OF SAMPLES

CRITERIA :

76

NOTE :

83

BOD - YES SS - YES

BOD - 25 mg/l

SS - 25 mg/l

TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

\* - EXCEEDS EFFLUENT CRITERIA

TP - YES TP - NONE

76

ND - NO DATA

83

ANTICIPATED

REMEDIAL MEASURES

START DATE END DATE

| 83

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

83

COMPLIANCE

COLLECTION SYSTEM DEFICIENCY UNDER STUDY

87/04/01 87/09/01

MUNICIPALITY : PLANTAGENET

PLANT : PLANTAGENET LAGOON

WORKS NUMBER : 110001621

TREATMENT : CONVENTIONAL LAGOON SEASONAL

: SOUTHEAST

REGION DISTRICT

: CORNWALL

OPERATING AUTHORITY : MINISTRY

WATERCOURSE

: SOUTH NATION RIVER

MAJOR BASIN

: GREAT LAKES

MINOR BASIN : OTTAWA RIVER

POPULATION SERVED : 876

DESIGN CAPACITY : 0.59 1000 m3

IJC DESIGNATION : NON IJC

1987	AV	G DAY	1	5 D	AY BOD		1	SUSPEN	DED SOLI	DS	1	TOTAL PH	OSPHORUS
	F	LOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(100	0 m3/d)	(mg/L	) (mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	! 	0.489	ND	ND			ND	ND			ND	ND	
FEB	1	0.427	33.	O ND			236.0	ND			5.1	ND	
MAR	l	0.844	55.	0 21.7			201.0	62.7			6.2	3.7	
APR	l	0.728	21.	0 8.5			69.0	29.5			4.3	3.0	
YAM	l	0.489	67.	O ND			326.0	ND			4.8	ND	
JUN	1	0.585	63.	0 ND			162.0	ND			5.1	ND	
JUL	l	0.490	78.	O ND			616.0	ND			3.9	ND	
AUG	l	0.445	99.	O ND			456.0	ND			4.4	ND	
SEP	ı	0.552	53.	O ND			205.0	ND			3.7	ND	
OCT	I	0.506	67.	0 14.5			141.0	7.5			6.8	0.3	
VOV	I	0.590	91.	0 ND			247.0	ND			4.1	ND	
DEC	 	0.715	150. 	0 ND			321.0 	ND			7.2 	ND	
AVERA	GE:	0.572	71.	0 14.9		10.613	271.0	33.2		26.063	5.1	2.3	1.820
OBSER EXCEE		NS:12 S	j 11	3			j 11	3			11	3	10-10-10-10-10-10-10-10-10-10-10-10-10-1
O OF	SAMP	LES	22	11			22	11			1 22	10	

COMPLIANCE : CRITERIA :

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

\* - EXCEEDS EFFLUENT CRITERIA

SS - YES TP - YES

BOD - YES

BOD - 30 mg/l SS - 40 mg/l TP - NONE

ND - NO DATA

ANTICIPATED

REMEDIAL MEASURES

START DATE END DATE

COMPLIANCE

COLLECTION SYSTEM INPUT MONITORING

87/04/01 87/12/31

MUNICIPALITY : PRESCOTT

: EDWARDSBURGH WPCP

WORKS NUMBER : 110001122

TREATMENT : PRIMARY

PHOSPHORUS REMOVAL - CONTINUOUS

REGION

: SOUTHEAST

DISTRICT

: KINGSTON

OPERATING AUTHORITY : MINISTRY

WATERCOURSE

: ST. LAWRENCE RIVER

MAJOR BASIN

: GREAT LAKES

MINOR BASIN

: ST. LAWRENCE RIVER

ON

DESIGN CAPACITY : 5.68 1000 m3

POPULATION SERVED: 4595

JC	DESIGNAT	I
	JC	JC DESIGNAT

: DIRECT

1987	AVG	DAY	1	5 DA	Y BOD		1	SUSPEN	DED SOLI	DS	1 .	TOTAL PHO	SPHORUS
	FL	OW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000	m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d
JAN	¦ :	3.960	54.0	19.0	65	75.240	   87.0	17.0	80	67.320	   3.2	0.8	3.16
FEB		3.360	63.0	20.0	68	67.200	134.0	18.0	87	60.480	1 4.2	0.9	3.02
MAR	1	7.178	29.0	11.0	62	78.958	71.0	19.0	73	136.382	1.9	0.5	3.58
APR	1	5.700	29.0	16.0	45	91.200	103.0	19.5	81	111.150	3.2	0.6	3.13
MAY	1	3.850	63.0	17.0	73	65.450	187.0	26.0	86	100.100	3.5	0.6	2.31
JUN	1	3.840	50.0	10.6	79	40.704	254.0	22.5	91	86.400	5.7	0.5	1.92
JUL	1	3.940	46.0	10.0	78	39.400	111.0	19.5	82	76.830	3.5	0.8	3.3
AUG	1	3.620	35.0	14.0	60	50.680	147.0	37.0	75	133.940	3.2	0.9	3.33
SEP		4.210	32.0	15.5	52	65.255	130.0	28.5	78	119.985	3.4	0.9	3.57
OCT	1	4.600	32.0	20.5	36	94.300	91.0	16.0	82	73.600	2.8	0.5	2.1
NOV	1	5.050	39.0	24.5	37	123.725	98.0	16.0	84	80.800	1.9	0.4	2.17
DEC	1	6.240	34.0	16.0	53	99.840	113.0	22.0	81	137.280	2.5	0.5	3.12
	<u> </u>		!				1				1		1997-1
AVERA	GE:	4.629	42.0	16.2	59	74.329	l l 127.0	21.8	82	98.689	3.3	0.7	2.89
OBSER	VATION	S:12	1 12	12			1 12	12		1627:50-54 <b>6</b> 54	1 12	12	
EXCEE	DANCES		1				ĺ				Ì	eder <del>as</del> e	
NO OF	SAMPL	ES	24	24			24	23			1 48	48	

COMPLIANCE :

CRITERIA :

NOTE :

BOD - YES

BOD - 50%

TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - YES

SS - 70%

\* - EXCEEDS EFFLUENT CRITERIA

TP - YES

TP - 1.0 mg/l

ND - NO DATA

ANTICIPATED

REMEDIAL MEASURES

START DATE END DATE

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

COMPLIANCE

MUNICIPALITY : RENFREW REGION : SOUTHEAST PLANT : RENFREW WPCP DISTRICT : OTTAWA WORKS NUMBER : 120000603 OPERATING AUTHORITY : MUNICIPAL

WORKS NUMBER: 120000603 OPERATING AUTHORITY: MUNICIPAL TREATMENT: PRIMARY WATERCOURSE: BONNECHER

T : PRIMARY WATERCOURSE : BONNECHERE RIVER
PHOSPHORUS REMOVAL-CONTINUOUS MAJOR BASIN : GREAT LAKES

MINOR BASIN : OTTAWA RIVER

DESIGN CAPACITY : 8.63 1000 m3 IJC DESIGNATION : NON IJC

POPULATION SERVED : 8200

1987	A	G DAY	1		5 DA	Y BOD		1	SUSPEN	DED SOLI	DS	1 1	OTAL PHO	SPHORUS
	1 1	FLOW	1	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(100	00 m3/d)	1	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	1	6.908	1	120.0	24.0	80	165.792	   154.0	22.0	86	151.976	6.0	1.8 *	12.434
FEB	İ	7.043	i	100.0	32.0	68	225.376	88.0	26.5	70	186.639	4.8	2.8 *	19.720
MAR	l	12.987	Ī	36.0	11.0	69	142.857	78.0	14.0	82	181.818	2.8	0.6	7.66
APR	Ì	13.679	1	ND	ND	0	ND	ND	ND	0	ND	ND	ND	ND
MAY	١	8.803	1	56.0	5.0	91	44.015	112.0	8.0	93	70.424	4.9	0.5	4.66
JUN	1	9.998	1	26.0	3.2	88	31.994	83.0	7.6	91	75.985	2.0	0.2	1.60
JUL	1	7.802	1	40.0	19.0	52	148.238	80.0	22.5	72	175.545	2.9	0.7	5.07
AUG	I	7.155	1	38.0	20.0	47	143.100	105.0	17.0	84	121.635	3.5	0.9	6.29
SEP	ı	6.834	1	94.0	13.0	86	88.842	214.0	26.0	88	177.684	6.1	1.1 *	7.17
OCT	l	7.357	1	ND	ND	0	ND	ND	ND	0	ND	ND	ND	ND
VON	l	7.377	1	ND	ND	0	ND	ND	ND	0	ND	ND	ND	ND
DEC	l 1	8.678	1	74.0	14.5	80	125.831	147.0 	9.9	93	85.912	39.0 	0.4	3.38
AVERA	GE:	8.718	T	65.0	15.7	73	124.005	118.0	17.1	84	136.402	8.0	1.0	7.55
OBSER	VATIO	ONS:12	1	9	9			9	9			9	9	
EXCEE	DANCE	S	1					1				Ì	3	
NO OF	SAME	PLES	1	12	12			1 12	12			12	12	

COMPLIANCE : CRITERIA : NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

BOD - YES BOD - 50% TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - YES SS - 70% \* - EXCEEDS EFFLUENT CRITERIA

TP - NO TP - 1.0 mg/l ND - NO DATA

ANTICIPATED

REMEDIAL MEASURES START DATE END DATE COMPLIANCE

REMEDIAL MEASURES BEING EVALUATED 87/09/01 89/12/31

MUNICIPALITY : ROCKLAND

PLANT : ROCKLAND LAGOON

WORKS NUMBER : 110001159

TREATMENT : AERATED CELL PLUS LAGOON

REGION

: SOUTHEAST

DISTRICT

: CORNWALL

OPERATING AUTHORITY : MINISTRY

WATERCOURSE

: OTTAWA RIVER

MAJOR BASIN

: GREAT LAKES

MINOR BASIN : OTTAWA RIVER

IJC DESIGNATION : NON IJC

DESIGN CAPACITY :

3.34 1000 m3

POPULATION SERVED :

5000

	I	SUSPEN	DED SOLI	DS		TOTAL PHO	SPHODILS
LOAD (kg/d)	INF (mg/L)	EFF		LOAD	INF  (mg/L)	EFF	LOAD (kg/d
50 000	1 05 0	20.7		7/ 07	7   5 7	7.7	·

A	VG DAY	1	5 DA	Y BOD		1	SUSPEN	DED SOLI	DS	1	TOTAL PI	HOSPHORUS
I	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
(10	00 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
 	1.723	l I 54.0	34.3		50 000	   95 n	20.3		3/, 077	157	7 7	E 494
i												5.686
i	2.773					noce trocusoex				N		5.566 9.983
i	2.868	74.0	23.0			The state of the state of				(2) 10 mag		8.030
İ	1.706	72.0	46.3				52.0			100		6.142
1	2.612	90.0	50.4		131.645	918.0	27.6				3.0	7.888
1	1.869	65.0	19.8		37.006	407.0	15.0				2.4	4.392
1	1.593	78.0	16.8		26.762	522.0	17.8		28.355	6.5	2.3	3.664
1	1.890	57.0	10.6		20.034	303.0	13.2		24.948	5.7	2.8	5.292
1	1.982	84.0	16.8		33.298	163.0	15.5		30.721	7.0	2.4	4.757
ı	2.083	70.0	7.2		14.998	167.0	15.3		31.870	5.5	1.9	3.958
 	2.663	118.0 	30.7		81.754	294.0	18.7		49.798	6.7	3.6	9.587
· ·	2 100	74.0	24.0						NAT BERTAN	<del>i</del>		
		A STATE OF			57.230	en management			46.534	10.6	2.9	6.245
	5416TX (2) (1) TT	12 	12			12 	12			12	12	
SAM	PLES	45	44			45	44			44	43	
	   (100                                     	1.723   1.546   2.773   2.868   1.706   2.612   1.869   1.593   1.890   1.982   2.083   2.663	FLOW   INF   (1000 m3/d)   (mg/L)	FLOW   INF   EFF   (1000 m3/d)   (mg/L) (mg/L) (mg/L)	FLOW   INF EFF   (1000 m3/d)   (mg/L) (mg/L) (%REM)	FLOW   INF	FLOW   INF   EFF   LOAD   INF   (1000 m3/d)   (mg/L)   (mg/L)   (%REM)   (kg/d)   (mg/L)   (mg/L)   (mg/L)   (mg/L)   (mg/L)	FLOW   INF   EFF   LOAD   INF   EFF   (1000 m3/d)   (mg/L)   (mg/L)   (%REM)   (kg/d)   (mg/L)   (mg	FLOW   INF	FLOW   INF	FLOW	FLOW   INF   EFF   LOAD   INF   EFF   LOAD   INF   EFF   (1000 m3/d)   (mg/L)   (mg/L)   (xrem)   (kg/d)   (mg/L)   (m

COMPLIANCE :

CRITERIA :

NOTE :

BOD - YES

BOD - 30 mg/l

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - YES

SS - 40 mg/l

\* - EXCEEDS EFFLUENT CRITERIA

TP - YES TP - NONE ND - NO DATA

ANTICIPATED

REMEDIAL MEASURES

START DATE END DATE

COMPLIANCE

INPLANT SAMPLING PROGRAM IS BEING MODIFIED

87/05/01 87/10/31

MUNICIPALITY : RUSSELL

: SOUTHEAST

PLANT : EMBRUN PV LAGOON (IN OPERATION 1987)

REGION DISTRICT

: CORNWALL

WORKS NUMBER : 120002004

OPERATING AUTHORITY : MUNICIPAL

TREATMENT : CONVENTIONAL LAGOON SEASONAL

WATERCOURSE

MAJOR BASIN : GREAT LAKES
MINOR BASIN : OTTAWA RIVER

DESIGN CAPACITY : 0.00 1000 m3

POPULATION SERVED : 0

IJC DESIGNATION : NON IJC

1987	AVG DAY		ĺ	5 DA	Y BOD		1	SUSPEN	DED SOLI	TOTAL PHOSPHORUS			
			INF EFF			LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(100	0 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d
JAN		ND	ND	ND			ND	ND			ND	ND	
FEB	ı	ND	ND	ND			ND	ND			ND	ND	
MAR	l	ND	ND	ND			ND	ND			ND	ND	
APR	l	ND	ND	ND			ND	ND			ND	ND	
MAY	l	ND	ND	ND			ND	ND			ND	ND	
JUN	l	ND	ND ND	ND			ND	ND			ND	ND	
JUL	l	ND	ND	ND			ND	ND			ND	ND	
AUG	l	ND	ND ND	ND			ND	ND			ND	ND	
SEP	ı	ND	ND	ND			ND	ND			ND	ND	
OCT	ı	ND	ND	ND			ND	ND			ND	ND	
NOV	l	ND	ND	ND			ND	ND			ND	ND	
DEC		ND	ND	ND			ND	ND			ND	ND	
						20.0000	1				<u> </u>		
AVERAGE: 0.000		0.0	0.0		0.000	0.0	0.0		0.000	0.0	0.0	0.00	
OBSER\ EXCEE			0 	0			1 0	0			0 	0	
NO OF	SAMP	LES	1 0	0			0	0			i 0	0	

COMPLIANCE :

CRITERIA :

BOD - INSUFFICIENT DATA BOD - 30 mg/l

SS - INSUFFICIENT DATA SS - 40 mg/l

TP - INSUFFICIENT DATA TP - NONE

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

\* - EXCEEDS EFFLUENT CRITERIA

ND - NO DATA

ANTICIPATED

REMEDIAL MEASURES

START DATE END DATE

COMPLIANCE

MUNICIPALITY: RUSSELL REGION : SOUTHEAST
PLANT : RUSSELL LAGOON DISTRICT : CORNWALL

WORKS NUMBER : 110001514 OPERATING AUTHORITY : MINISTRY

WATERCOURSE : CASTOR RIVER
MAJOR BASIN : GREAT LAKES
MINOR BASIN : OTTAWA RIVER

DESIGN CAPACITY: 1.00 1000 m3 IJC DESIGNATION: NON IJC

POPULATION SERVED: 1400

TREATMENT : CONVENTIONAL LAGOON ANNUAL

1987	AV	DAY	1	5 DA	Y BOD		Ī	SUSPEN	DED SOLI	TOTAL PHOSPHORUS			
	FI	LOW	INF	EFF	(%REM)	LOAD (kg/d)	INF	EFF		LOAD	INF	EFF	LOAD
	(100	0 m3/d)  (mg/L)	(mg/L)	(mg/L)			(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	1	0.301	ND	ND			I   ND	ND			ND	ND	
FEB	Ì	0.283	228.0	ND			120.0	ND			8.9	ND	
MAR	1	0.367	104.0	ND			95.0	ND			6.0	ND	
APR	1	0.356	131.0	4.4			199.0	58.0			7.7	1.7	
MAY	1	0.264	100.0	ND			87.0	ND			8.4	ND	
JUN	1	0.262	101.0	ND			146.0	ND			6.7	ND	
JUL	1	0.247	118.0	ND			170.0	ND			6.6	ND	
AUG	1	0.232	138.0	ND			98.0	ND			9.0	ND	
SEP	1	0.270	92.0	ND			209.0	ND			9.1	ND	
OCT	1	0.269	64.0	ND			162.0	ND			11.7	ND	
NOV	1	0.276	126.0	ND			186.0	ND			7.7	ND	
DEC	 	0.371	32.0 	ND			52.0 	ND			4.7 	ND	
AVERA	GE:	0.292	112.0	4.4		1.566	138.0	58.0 *		20.648	7.9	1.7	0.616
OBSERVATIONS:12 EXCEEDANCES			11 	1			j 11	1			ļ 11 ļ	1	
NO OF	SAMP	LES	19	3			1 19	3			1 19	3	

COMPLIANCE: CRITERIA: NOTE:

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

BOD - YES BOD - 30 mg/L TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - NO SS - 40 mg/l \* - EXCEEDS EFFLUENT CRITERIA

TP - YES TP - NONE ND - NO DATA

ANTICIPATED

REMEDIAL MEASURES START DATE END DATE COMPLIANCE

PHOSPHORUS REMOVAL OPERATION UNDER REVIEW 88/03/01

MUNICIPALITY : SIDNEY REGION : SOUTHEAST DISTRICT PLANT : BATAWA WPCP : KINGSTON WORKS NUMBER : 110000668 OPERATING AUTHORITY : MINISTRY

TREATMENT : CONVENTIONAL ACTIVATED SLUDGE WATERCOURSE : TRENT RIVER

MAJOR BASIN MINOR BASIN PHOSPHORUS REMOVAL-CONTINUOUS : GREAT LAKES : LAKE ONTARIO

DESIGN CAPACITY : 0.56 1000 m3 IJC DESIGNATION : INDIRECT

POPULATION SERVED : 300

1987	AVG DAY	I	5 DA	Y BOD		1	SUSPEN	DED SOLI	TOTAL PHOSPHORUS			
	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	l   1.350	64.0	3.3		4.455	   43.0	12.0		16.200	   2.7	1.0	1.350
FEB	1.310	88.0	1.7		2.227	67.0	15.7		20.567	3.1	0.9	1.192
MAR	1.390	44.0	2.2		3.058	47.0	9.0		12.510	2.3	0.7	0.945
APR	1.350	42.0	3.5		4.725	36.0	10.0		13.500	2.3	0.7	0.986
MAY	1.327	73.0	3.8		5.043	51.0	8.8		11.678	2.4	0.7	0.889
JUN	1.300	104.0	3.8		4.940	62.0	8.3		10.790	3.6	8.0	1.092
JUL	1.090	74.0	4.5		4.905	32.0	12.0		13.080	2.6	0.8	0.839
AUG	0.950	87.0	3.8		3.610	47.0	10.0		9.500	1.8	1.2 *	1.140
SEP	0.890	67.0	4.0		3.560	35.0	7.2		6.408	2.0	0.8	0.685
OCT	0.870	121.0	4.1		3.567	37.0	5.2		4.524	2.3	0.7	0.635
NOV	1.090	90.0	4.0		4.360	39.0	7.6		8.284	3.2	1.0	1.068
DEC	1.290 	114.0	7.2		9.288	44.0 	9.1		11.739	4.0 	1.0	1.226
AVERA	GE: 1.184	   81.0	3.8		4.478	1 45.0	9.6		11.565	1 2.7	0.9	1.004
OBSERVATIONS: 12		1 12	12			1 12	12			1 12	12	1100
	DANCES	i				i	-			i	1	
NO OF	SAMPLES	50	50			73	73			I 57	56	

COMPLIANCE : CRITERIA : NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

BOD - 25 mg/l SS - 25 mg/l BOD - YES TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - YES \* - EXCEEDS EFFLUENT CRITERIA

TP - NO TP - 1.0 mg/l ND - NO DATA

ANTICIPATED

REMEDIAL MEASURES START DATE END DATE COMPLIANCE

MUNICIPALITY : SMITHS FALLS REGION : SOUTHEAST

PLANT : SMITHS FALLS WPCP DISTRICT : OTTAWA

WORKS NUMBER : 120000890 OPERATING AUTHORITY : MUNICIPAL

TREATMENT : PRIMARY WATERCOURSE : RIDEAU RIVER

PHOSPHORUS REMOVAL-CONTINUOUS MAJOR BASIN : GREAT LAKES
MINOR BASIN : OTTAWA RIVER

DESIGN CAPACITY: 11.36 1000 m3 IJC DESIGNATION: NON IJC

POPULATION SERVED: 11000

1987	A'	VG DAY	i	5 DA	Y BOD		Ì	SUSPEN	DED SOLI	os	TOTAL PHOSPHORUS			
		FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD	
	(10	00 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)	
JAN	1	10.683	69.0	25.5	63	272.416	61.0	24.5	60	261.733	2.1	1.0	10.149	
FEB	١	10.546	92.0	38.0	59	400.748	66.0	26.0	61	274.196	2.5	1.1 *	11.390	
MAR	I	16.140	46.0	19.5	58	314.730	59.0	28.5	52	459.990	1.9	0.6	9.200	
APR	1	14.813	42.0	42.0	0	622.146	79.0	29.0	63	429.577	2.2	0.6	8.147	
MAY	1	10.108	88.0	30.5	65	308.294	74.0	26.0	65	262.808	2.3	0.9	9.29	
JUN	1	11.182	66.0	22.5	66	251.595	102.0	32.0	69	357.824	2.3	0.7	7.60	
JUL	I	ND	68.0	20.0	71	ND	97.0	27.0	72	ND	2.7	0.9	ND	
AUG	1	9.530	63.0	19.5	69	185.835	56.0	30.0	46	285.900	2.0	1.9 *	17.63	
SEP	1	11.235	53.0	15.0	72	168.525	120.0	18.0	85	202.230	3.7	0.5	5.39	
OCT	1	11.180	55.0	19.0	65	212.420	58.0	23.0	60	257.140	2.4	0.8	9.05	
NOV	1	11.978	58.0	32.5	44	389.285	82.0	50.5	38	604.889	2.9	1.9 *	22.87	
DEC	l 1	14.455	50.0 	18.0	64	260.190	38.0 	20.0	47	289.100	1.8 	0.5	7.37	
AVERA	GE:	11.986	62.0	25.2	63	307.835	   74.0	27.9	60 *	335.035	2.4	0.9	10.73	
OBSERVATIONS:11		12	12			12	12			12	12			
EXCEE	DANC	ES	I				1				1	3		
NO OF	SAM	PLES	22	22			23	21			23	23		

COMPLIANCE: CRITERIA: NOTE:

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
BOD - YES BOD - 50% TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - NO SS - 70% \* - EXCEEDS EFFLUENT CRITERIA

ANTICIPATED REMEDIAL MEASURES START DATE END DATE COMPLIANCE UNDER DISCUSSION WITH MUNICIPALITY 88/01/01 88/12/31 COLLECTION SYSTEM DEFICIENCY UNDER STUDY 88/05/01 88/12/31 INFILTRATION PROBLEMS ARE BEING CORRECTED 87/11/01 92/12/31 SEWER SEPARATION UNDERWAY 87/08/01 92/12/31 OPERATOR TRAINING IS BEING PROVIDED 87/06/01 87/12/31 IMPLEMENTING AN OPERATIONS CONTROL PROGRAM 87/01/01 87/12/31 PHOSPHORUS REMOVAL OPERATION UNDER REVIEW 86/11/01 87/01/17

MUNICIPALITY: ST ISIDORE DE PRESCOTT REGION: SOUTHEAST
PLANT: ST.ISIDORE LAGOON DISTRICT: CORNWALL
WORKS NUMBER: 110002210: OPERATING AUTHORITY: MINISTRY

TREATMENT : CONVENTIONAL LAGOON ANNUAL WATERCOURSE : SCOTCH RIVER

MAJOR BASIN : GREAT LAKES
MINOR BASIN : OTTAWA RIVER

DESIGN CAPACITY : 0.65 1000 m3 IJC DESIGNATION : NON IJC

POPULATION SERVED: 772

1987	AVG	PAY	İ	5 DA	Y BOD		i	SUSPEN	DED SOLI	DS	i i	TOTAL PHO	SPHORUS
	FLOW		INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 r	n3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	l I 0.	.218	   139.0	ND			61.0	ND			   7.3	ND	
FEB		199	280.0	ND			171.0	ND			14.0	ND	
MAR	j 0.	.307	193.0	ND			133.0	ND			111.5	ND	
APR	j 0.	.301	115.0	1.9			103.0	41.0			7.8	1.4	
MAY	j 0.	.236	145.0	ND			78.0	ND			14.4	ND	
JUN	0.	.252	56.0	ND			50.0	ND			5.1	ND	
JUL	0.	.265	118.0	ND			110.0	ND			9.7	ND	
AUG	1 0	.239	165.0	ND			126.0	ND			10.0	ND	
SEP	0	.253	59.0	ND			93.0	ND			8.6	ND	
OCT	0.	.252	124.0	ND			157.0	ND			10.3	ND	
NOV	0	. 285	119.0	ND			182.0	ND			8.4	ND	
DEC	[ 0.	.319	130.0	ND			226.0	ND			10.9 	ND	
AVEDA	GE · O	261	1 137.0	1.9		0.572	1 124.0	41.0 *	N	12.341	9.8	1.4	0.418
AVERAGE: 0.261 OBSERVATIONS:12		1 12	1.7		0.572	1 12	41.0 -		12.341	1 12	1.4	0.410	
EXCEEDANCES		'2				, '2 	78.61			12			
NO OF	SAMPLES	S	19	3			i 19	3			i 19	3	
			ì				1				ì		

COMPLIANCE : CRITERIA : NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

BOD - YES BOD - 30 mg/l TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - NO SS - 40 mg/l \* - EXCEEDS EFFLUENT CRITERIA

TP - YES TP - NONE ND - NO DATA

ANTICIPATED

REMEDIAL MEASURES START DATE END DATE COMPLIANCE

INPLANT SAMPLING PROGRAM IS BEING MODIFIED 87/04/30

MUNICIPALITY : STIRLING

REGION

: SOUTHEAST

PLANT : STIRLING LAGOON (MUN.16.1.86)

DISTRICT

: KINGSTON

WORKS NUMBER: 110000686

TREATMENT : CONVENTIONAL LAGOON SEASONAL

OPERATING AUTHORITY : MUNICIPAL

: RAWDON CREEK

PHOSPHORUS REMOVAL - BATCH

WATERCOURSE MAJOR BASIN

: GREAT LAKES

MINOR BASIN

: LAKE ONTARIO

DESIGN CAPACITY :

1.13 1000 m3

POPULATION SERVED: 1700

IJC DESIGNATION : INDIRECT

	т —	PAN CONTROL OF	NA UNICO	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,									
1987	   A'	VG DAY		5 DA	Y BOD		10	SUSPEN	DED SOLI	TOTAL PHOSPHORUS			
	FLOW		INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(10	00 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d
JAN	1	0.895	ND	ND			   ND	ND			ND	ND	
FEB	Ĭ	0.802	ND	ND			ND	ND			ND	ND	
MAR	I	1.076	ND	ND			ND	ND			ND	ND	
APR	Ĭ	1.859	ND	ND			ND	ND			ND	ND	
MAY	Ī	1.377	ND	ND			ND	ND			ND	ND	
JUN	1	0.902	ND	ND			ND	ND			ND	ND	
JUL	1	0.624	ND	ND			ND	ND			ND	ND	
AUG	1	0.670	ND	ND			ND	ND			ND	ND	
SEP	1	0.699	ND	ND			ND	ND			ND	ND	
OCT	1	0.661	ND	ND			ND	ND			ND	ND	
NOV	1	0.716	ND	ND			ND.	ND			ND	ND	
DEC	1	1.032	ND	ND			ND	ND			ND	ND	
AVERA	GE:	0.943	1 0.0	0.0		0.000	1 0.0	0.0		0.000	1 0.0	0.0	0.00
OBSERVATIONS: 12		1 0	0			1 0	0		0.000	1 0	0	0.00	
EXCEE	DANC	ES	i				1	- <del>-</del> - <del>-</del> - <del>-</del> - <del>-</del>			"	•	
NO OF SAMPLES		PLES	i o	0			I 0	0			io	0	

COMPLIANCE :

CRITERIA :

NOTE :

BOD - INSUFFICIENT DATA BOD - 30 mg/l SS - INSUFFICIENT DATA SS - 40 mg/L

TP - INSUFFICIENT DATA TP - 1.0 mg/l

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

\* - EXCEEDS EFFLUENT CRITERIA

ND - NO DATA

ANTICIPATED

REMEDIAL MEASURES

START DATE END DATE

COMPLIANCE

MUNICIPALITY : TRENTON REGION : SOUTHEAST PLANT : TRENTON WPCP DISTRICT : KINGSTON WORKS NUMBER : 110000775 OPERATING AUTHORITY : MINISTRY TREATMENT : CONVENTIONAL ACTIVATED SLUDGE WATERCOURSE : BAY OF QUINTE

> MAJOR BASIN MINOR BASIN PHOSPHORUS REMOVAL - CONTINUOUS : GREAT LAKES : LAKE ONTARIO

DESIGN CAPACITY : 15.91 1000 m3 IJC DESIGNATION : DIRECT

POPULATION SERVED : 15346

1987	A	VG DAY	1	5 DA	Y BOD		1	SUSPEN	DED SOLI	DS	1 1	TOTAL PHO	SPHORUS
	1	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(10	00 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	I	11.110	258.0	17.0		188.870	1 123 0	8.9		98.879	1 4 1	0.6	6.999
FEB	ł	10.200	204.0	13.8							■ 50%35560		
	I					140.760		10.2		104.040	I HERSELES	0.3	2.856
MAR	l	13.080	145.0	12.0		156.960	The second was been	9.0		117.720	4.3	0.4	4.709
APR	1	16.730	209.0	17.0		284.410	144.0	10.4		173.992	5.2	0.6	9.202
MAY	1	10.540	323.0	15.0		158.100	183.0	7.5		79.050	7.3	0.5	5.586
JUN	1	10.100	311.0	15.5		156.550	160.0	15.6		157.560	7.1	0.6	5.757
JUL	1	8.550	285.0	16.0		136.800	162.0	25.0		213.750	6.4	0.9	8.037
AUG	1	9.060	181.0	9.5		86.070	195.0	11.3		102.378	10.0	0.3	2.537
SEP	1	10.820	258.0	10.0		108.200	179.0	16.0		173.120	5.4	0.7	8.007
OCT	1	9.570	297.0	16.0		153.120	201.0	19.0		181.830	9.5	0.9	8.613
NOV	1	12.180	194.0	13.4		163.212	154.0	10.9		132.762	5.6	0.4	4.750
DEC	 	12.860	306.0	12.5		160.750	128.0 	11.7		150.462	5.1 	0.4	5.401
AVERA	GE:	11.233	248.0	14.0	***************************************	157.817	159.0	13.0		140.462	6.5	0.5	6.038
OBSER EXCEE		ONS:12 ES	12 	12			12 	12			12 	12	
NO OF	SAM	PLES	53	54			242	243			78	79	

COMPLIANCE : CRITERIA : NOTE :

> BOD - 25 mg/l 25 mg/l BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS BOD - YES TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - YES \* - EXCEEDS EFFLUENT CRITERIA

TP - YES TP - 1.0 mg/l ND - NO DATA

ANTICIPATED REMEDIAL MEASURES START DATE END DATE COMPLIANCE

MUNICIPALITY : TWEED

PLANT : TWEED LAGOON

WORKS NUMBER: 120000952

TREATMENT : CONVENTIONAL LAGOON SEASONAL

PHOSPHORUS REMOVAL - CONTINUOUS

REGION

: SOUTHEAST

DISTRICT

: KINGSTON

OPERATING AUTHORITY : MINISTRY

WATERCOURSE

: MOIRA RIVER

MAJOR BASIN

: GREAT LAKES

MINOR BASIN

: LAKE ONTARIO

DESIGN CAPACITY :

1.20 1000 m3

IJC DESIGNATION : INDIRECT

POPULATION SERVED: 1607

1987	AVG DAY	1	5 DA	Y BOD		l	SUSPEN	DED SOLI	DS	1	TOTAL PHO	SPHORUS
	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	1.400	1 198.0	ND			   154.0	ND			4.8	ND	
FEB	1.300	104.0	ND			68.0	ND			4.1	ND	
MAR	1.700	96.0	10.0			148.0	6.0			2.8	0.8	
APR	4.200	18.0	8.0			22.0	8.0			13.0	0.8	
MAY	1.600	78.0	ND			105.0	4.0			3.6	0.9	
JUN	1.300	138.0	ND			111.0	ND			4.4	ND	
JUL	1.000	74.0	ND			159.0	ND			5.6	ND	
AUG	0.640	83.0	ND			142.0	ND			4.6	ND	
SEP	0.970	105.0	ND			154.0	ND			3.7	ND	
OCT	0.830	128.0	10.0			182.0	15.0			5.5	0.8	
NOV	1.260	108.0	11.0			86.0	16.0			3.5	0.7	
DEC	1.900	73.0	ND			80.0	ND			1.8	ND	
	<u> </u>	<u> </u>				<u> </u>				<u> </u>		
AVERA	GE: 1.508	100.0	9.8		18.190	1 118.0	9.8		16.562	4.8	0.8	1.54
OBSER	VATIONS:12	12	4			12	5			12	5	
EXCEE	DANCES	1				l				Î		
NO OF	SAMPLES	25	11			27	12			I 26	12	

COMPLIANCE :

CRITERIA :

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

BOD - 30 mg/l SS - YES SS - 40 mg/l

\* - EXCEEDS EFFLUENT CRITERIA

TP - YES TP - 1.0 mg/l

ND - NO DATA

ANTICIPATED

REMEDIAL MEASURES

BOD - YES

START DATE END DATE

COMPLIANCE

REGION : SOUTHEAST DISTRICT : CORNWALL MUNICIPALITY : VANKLEEK HILL : SOUTHEAST PLANT : VANKLEEK HILL LAGOON WORKS NUMBER : 110001658 OPERATING AUTHORITY : MINISTRY

TREATMENT : CONVENTIONAL LAGOON SEASONAL WATERCOURSE : LITTLE RIDEAU CREEK

MAJOR BASIN : GREAT LAKES
MINOR BASIN : OTTAWA RIVER

IJC DESIGNATION : NON IJC DESIGN CAPACITY : 0.90 1000 m3

POPULATION SERVED : 1711

1987	AVG DAY	i	5 DA	Y BOD		i	SUSPEN	DED SOLI	DS	i i	TOTAL PHO	SPHORUS
	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	•	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)		(mg/L)	(mg/L)	(kg/d)
JAN	0.852	1 62.0	ND			1114.0	ND			5.1	ND	
FEB	0.743	200.0	ND			1 120.0	ND			6.3	ND	
MAR	1.321	74.0	ND			58.0	ND			1 6.2	ND	
APR	1.210	74.0	ND			76.0	ND			2.9	ND	
MAY	0.783	104.0	15.7			64.0	27.0			3.5	0.4	
JUN	0.882	93.0	ND			47.0	ND			3.7	ND	
JUL	0.724	68.0	ND			63.0	ND			1 4.4	ND	
AUG	0.700	72.0	ND			33.0	ND			3.7	ND	
SEP	0.756	70.0	ND			58.0	ND			3.5	ND	
OCT	0.635	41.0	10.8			43.0	24.9			4.8	0.8	
NOV	1.011	103.0	ND			98.0	ND			5.4	ND	
DEC	1.207	57.0	ND			56.0	ND			4.1	ND	
	1					1				1		
AVERA	GE: 0.902	85.0	13.3		9.575	69.0	26.0		18.476	4.5	0.6	0.411
OBSER	EVATIONS: 12	12	2			12	2			12	2	
EXCEE	DANCES	1				1				1		
NO OF	SAMPLES	55	15			55	11			47	13	
		ı				1				ı		

COMPLIANCE : CRITERIA : NOTE :

BOD - 30 mg/l 40 mg/l BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

BOD - YES TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

\* - EXCEEDS EFFLUENT CRITERIA SS - YES

TP - YES TP - NONE ND - NO DATA

ANTICIPATED

REMEDIAL MEASURES START DATE END DATE COMPLIANCE

MUNICIPALITY : WELLINGTON PLANT

: WELLINGTON WPCP

WORKS NUMBER: 120003165 TREATMENT : EXTENDED AERATION

PHOSPHORUS REMOVAL-CONTINUOUS

REGION

: SOUTHEAST

DISTRICT : KINGSTON OPERATING AUTHORITY : MUNICIPAL

: LAKE ONTARIO

WATERCOURSE MAJOR BASIN

: GREAT LAKES

MINOR BASIN

: LAKE ONTARIO

DESIGN CAPACITY : POPULATION SERVED :

1.50 1000 m3

1077

IJC DESIGNATION

: DIRECT

1987	AVG DAY	1	5 DA	Y BOD		l .	SUSPEN	DED SOLI	DS	1	TOTAL PHO	SPHORUS
	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	0.759	86.0	1.0		0.759	87.0	2.0		1.518	5.6	0.4	0.304
FEB	0.528	ND	3.0		1.584	149.0	2.0		1.056	5.8	0.5	0.264
MAR	1.171	50.0	4.9		5.738	50.0	9.0		10.539	3.9	0.5	0.550
APR	1.368	32.0	2.7		3.694	49.0	9.3		12.722	1.4	0.8	1.053
MAY	0.715	125.0	3.0		2.145	127.0	7.0		5.005	6.3	0.3	0.186
JUN	0.451	230.0	1.0		0.451	475.0	6.1		2.751	13.2	0.5	0.235
JUL	0.371	190.0	2.0		0.742	83.0	3.2		1.187	11.2	0.4	0.156
AUG	0.345	82.0	0.8		0.276	176.0	5.4		1.863	6.3	0.1	0.048
SEP	0.295	78.0	1.3		0.384	179.0	9.2		2.714	6.6	0.5	0.147
OCT	0.300	62.0	2.5		0.750	92.0	6.2		1.860	5.9	0.2	0.069
NOV	0.350	102.0	2.0		0.700	126.0	6.8		2.380	6.7	0.5	0.168
DEC	0.785 	45.0 	2.3		1.805	82.0 	9.2		7.222	3.2 	0.3	0.21
AVERA	GE: 0.620	98.0	2.2		1.586	140.0	6.3		4.235	6.3	0.4	0.283
OBSER	VATIONS:12	11	12			1 12	12			i 12	12	

COMPLIANCE :

EXCEEDANCES NO OF SAMPLES

CRITERIA :

26

NOTE :

12

BOD - YES SS - YES

11

BOD - 25 mg/l

SS - 25 mg/l TP - 1.0 mg/l BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

| 12

28

\* - EXCEEDS EFFLUENT CRITERIA

ND - NO DATA

28

REMEDIAL MEASURES

TP - YES

START DATE END DATE

ANTICIPATED COMPLIANCE

MUNICIPALITY: WESTPORT REGION: SOUTHEAST
PLANT: WESTPORT LAGOON
WORKS NUMBER: 110001550

REGION: SOUTHEAST
DISTRICT: KINGSTON
OPERATING AUTHORITY: MINISTRY

TREATMENT : CONVENTIONAL LAGOON SEASONAL WATERCOURSE : UPPER RIDEAU LAKE

PHOSPHORUS REMOVAL - BATCH MAJOR BASIN : GREAT LAKES
MINOR BASIN : OTTAWA RIVER

DESIGN CAPACITY : 0.27 1000 m3 IJC DESIGNATION : NON IJC

POPULATION SERVED : 614

1987	A	/G DAY	1	5 DA	Y BOD		1	SUSPEN	DED SOLI	DS	1 1	TOTAL PHO	SPHORUS
		FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(100	00 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	l I	0.288	1 125.0	ND			1 164.0	ND			1 6.9	ND	
FEB	Ì	0.268	205.0	ND			278.0	ND			6.9	ND	
MAR	i	0.353	83.0	16.0			119.0	6.0			5.3	2.2 *	
APR	1	0.427	66.0	8.8			103.0	18.7			5.5	1.0	
MAY	1	0.319	250.0	ND			518.0	ND			15.5	ND	
JUN	1	0.435	59.0	ND			84.0	ND			1.6	ND	
JUL	1	0.309	74.0	ND			106.0	ND			5.6	ND	
AUG	1	0.285	83.0	ND			138.0	ND			7.0	ND	
SEP	1	0.286	65.0	ND			114.0	ND			4.9	ND	
OCT	1	0.284	52.0	6.0			66.0	14.0			4.4	0.9	
NOV	1	0.311	107.0	16.0			79.0	27.0			4.3	0.3	
DEC	1	0.401	105.0	ND			120.0 	ND			5.0 	ND	
AVERA	GE:	0.331	1 106.0	11.7	-	4.022	157.0	16.4		5.619	1 6.1	1.1 *	0.384
OBSER	VATIO	ONS:12	1 12	4			1 12	4			1 12	4	
EXCEE	DANC	ES	1				Ì				i	1	
NO OF	SAMI	PLES	23	10			23	9			23	10	

COMPLIANCE : CRITERIA : NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

BOD - YES BOD - 30 mg/l TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - YES SS - 40 mg/l \* - EXCEEDS EFFLUENT CRITERIA

TP - NO TP - 1.0 mg/l ND - NO DATA

MUNICIPALITY: WILLIAMSBURG REGION : SOUTHEAST

PLANT : WILLIAMSBURG PV LAGOON DISTRICT :

WORKS NUMBER: 120002013 OPERATING AUTHORITY: MUNICIPAL

TREATMENT : CONVENTIONAL LAGOON ANNUAL WATERCOURSE :

MAJOR BASIN : GREAT LAKES
MINOR BASIN : OTTAWA RIVER

DESIGN CAPACITY : 0.00 1000 m3 IJC DESIGNATION :

POPULATION SERVED: 0

1987	AVG DAY	1	5 DA	Y BOD		1	SUSPEN	DED SOLI	DS	1	TOTAL PHO	SPHORUS
	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	l ND	ND	ND			ND	ND			ND	ND	
FEB	ND ND	ND	ND			ND	ND			ND	ND	
MAR	l ND	ND	ND			ND	ND			ND	ND	
APR	ND ND	ND	ND			ND	ND			ND	ND	
MAY	ND	ND	ND			ND	ND			ND	ND	
JUN	ND	ND ND	ND			ND	ND			ND	ND	
JUL	ND	ND	ND			ND	ND			ND	ND	
AUG	ND ND	ND	ND			ND	ND			ND	ND	
SEP	ND	ND	ND			ND	ND			ND	ND	
OCT	) ND	ND	ND			ND	ND			ND	ND	
NOV	ND ND	ND	ND			ND	ND			ND	ND	
DEC	ND ND	ND ND	ND			ND	ND			ND	ND	
						1				1		
AVERAC	GE: 0.000	0.0	0.0		0.000	0.0	0.0		0.000	0.0	0.0	0.000
	ATIONS: 0	0	0			0	0			1 0	0	
	DANCES	!	2			1				1		
NO OF	SAMPLES	0	0			0	0			0	0	

COMPLIANCE : CRITERIA : NOTE :

BOD - INSUFFICIENT DATA BOD - 30 mg/l

SS - INSUFFICIENT DATA SS - 40 mg/l

TP - INSUFFICIENT DATA TP - NONE

E :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

\* - EXCEEDS EFFLUENT CRITERIA

ND - NO DATA

ANTICIPATED

START DATE END DATE COMPLIANCE

NONE

REMEDIAL MEASURES

: SOUTHEAST MUNICIPALITY : WINCHESTER REGION DISTRICT PLANT : WINCHESTER LAGOON : CORNWALL WORKS NUMBER : 110001202 OPERATING AUTHORITY : MINISTRY

TREATMENT : CONVENTIONAL LAGOON SEASONAL WATERCOURSE : CASTOR RIVER

MAJOR BASIN MINOR BASIN : GREAT LAKES : OTTAWA RIVER

DESIGN CAPACITY : 2.32 1000 m3 IJC DESIGNATION : NON IJC

POPULATION SERVED: 2200

1987	AVG DAY	1	5 DA	Y BOD		1	SUSPEN	DED SOLI	DS	1 1	TOTAL PHO	SPHORUS
	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	1.064	1 106.0	ND			1 148.0	ND			5.4	ND	
FEB	1.023	183.0	ND			145.0	ND			8.4	ND	
MAR	1.542	105.0	ND			119.0	ND			7.2	ND	
APR	1.579	59.0	17.3			83.0	22.0			4.1	3.2	
YAM	1.257	100.0	ND			98.0	ND			6.1	ND	
JUN	1.335	102.0	ND			273.0	ND			5.6	ND	
JUL	1.325	57.0	ND			84.0	ND			4.6	ND	
NUG	1.045	152.0	ND			187.0	ND			9.3	ND	
SEP	1.047	92.0	ND			128.0	ND			5.6	ND	
OCT	1.052	157.0	ND			160.0	ND			7.5	ND	
VOV	1.163	149.0	9.3			214.0	17.7			9.2	4.1	
EC	1.588	127.0	ND			161.0	ND			5.4	ND	
AVERA	GE: 1.252	1 116.0	13.3		19.067	1 150.0	19.9		27.662	1 6.5	3.7	4.903
	VATIONS:12	1 12	2		.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	1 12	2		2002	1 12	2	4.70.
	DANCES		æ: 			i	-			i	<del></del> \	
O OF	SAMPLES	22	6			22	6			22	6	
	nation of the second second second									!	-	

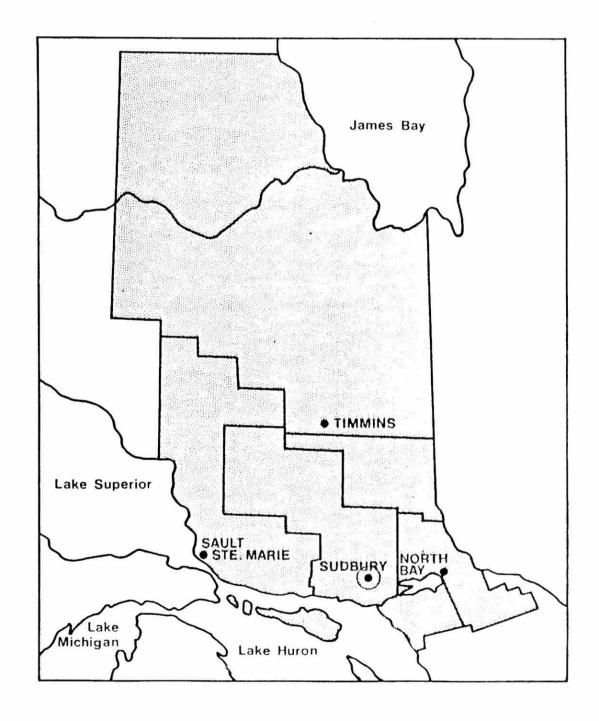
COMPLIANCE : CRITERIA : NOTE :

> BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS BOD - 30 mg/l BOD - YES SS - YES TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

\* - EXCEEDS EFFLUENT CRITERIA ss - 40 mg/l

TP - NONE TP - YES ND - NO DATA

ANTICIPATED REMEDIAL MEASURES START DATE END DATE COMPLIANCE FINAL DESIGN PHASE 1989 1990 1990



## REGIONAL OFFICE

Sudbury 199 Larch St. P3E 5P9 (705) 675-4501

## DISTRICT OFFICES

North Bay 1500 Fisher St. P1B 2H3 (705) 476-1001

Sault Ste. Marie 445 Albert St. East P6A 2J9 (705) 949-4640

Sudbury 199 Larch St. P3E 5P9 (705) 675-4501

Timmins
83 Algonquin Blvd. West
P4N 2R4
(705) 268-3222

# SUB-OFFICE

Parry Sound 74 Church St. P2A 1Z1 (705) 746-2139

## NORTHEASTERN SUMMARY - 1987

TREATMENT TYPE		NUMBER		The second second	DRAULIC LOADING	
	MINISTRY	MUNICIPAL	TOTAL	MINISTRY	MUNICIPAL	TOTAL
Communal Septic Tank	0	3	3	.000	.963	.963 (.212)
Primary	2	2	4	57.552	34.685	92.238
Conventional Activated Sludge	4	4	8	65.689	25.439	91.129
Modified Activated Sludge	0	0	0	.000	.000	.000
Contact Stabilization	4	0	4	19.829	.000	19.829
Extended Aeration	8	8	16	18.838	28.380	47.219 (10.387)
Trickling Filter	0	1	1	.000	. 454	.454
High Rate	0	°Ĭ	1	.000	68.190	68.190 (15.000)
Oxidation Ditch	0	1	1	.000	1.359	1.359
Aerated Lagoon	1	0	1	4.546	.000	4.546 (1.000)
Conventional Lagoon Continuous	3	3	6	1.154	2.504	3.659 (.805)
Conventional Lagoon Seasonal	22	10	32	12.995	6.755	19.750 (4.345)
Conventional Lagoon Annual	0	0	0	.000	.000	.000
Lagoon and Spray	0	0	0	.000	.000	.000
Aerated Cell Plus Lagoon	2	1	3	12.319	.390	12.710 (2.796)
Exfiltration Lagoon	2	1	3	1.682	1.545	3.227 (.710)
TOTALS	48	35	83	194.608 (42.809)	170.670 (37.543)	365.278 · (80.352)

 $10^3 \, \text{m/d}$ : THOUSANDS OF CUBIC METRES PER DAY CONVERSION FACTOR migd: Million imperial gallons per day  $10^3 \, \text{m}^3 / \text{d} = .220 \, \text{Migd}$ 01307-PDR.48

MUNICIPALITY : ARMSTRONG REGION : NORTHEAST

PLANT : EARLTON LAGOON DISTRICT : TIMMINS

WORKS NUMBER : 120000042 OPERATING AUTHORITY : MUNICIPAL

TREATMENT : CONVENTIONAL LAGOON CONTINUOUS WATERCOURSE : EVANTUREL CREEK

MAJOR BASIN : GREAT LAKES
MINOR BASIN : OTTAWA RIVER

DESIGN CAPACITY : 0.36 1000 m3 IJC DESIGNATION : NON IJC

POPULATION SERVED: 1452

1987	AVG DAY	1	5 DA	Y BOD		l	SUSPEN	DED SOLI	DS	,	TOTAL PHO	SPHORUS
	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	l ND	   214.0	8.4		ND	   72.0	5.8		ND	6.4	3.2	ND
FEB	I ND	81.0	15.6		ND	91.0	24.9		ND	5.1	4.2	ND
MAR	ND	113.0	29.3		ND	137.0	21.8		ND	7.0	5.4	ND
APR	, ND	22.0	8.8		ND	26.0	11.5		ND	1.6	2.5	ND
MAY	ND	41.0	24.9		ND	27.0	64.4		ND	2.8	4.6	ND
JUN	ND	60.0	11.1		ND	90.0	22.4		ND	4.3	1.1	ND
JUL	ND	60.0	11.1		ND	90.0	22.4		ND	4.4	1.1	ND
AUG	ND	88.0	24.0		ND	160.0	30.0		ND	6.1	4.1	ND
SEP	ND	96.0	50.0		ND	120.0	45.0		ND	7.2	3.9	ND
OCT	ND	80.0	42.0		ND	130.0	75.0		ND	4.7	3.9	ND
VON	ND	220.0	21.0		ND	160.0	25.0		ND	7.3	3.8	ND
DEC	) ND	ND	ND		ND	ND	ND		ND	ND 	ND	ND
AVERA	GE: 0.000	98.0	22.4		0.000	1 100.0	31.7		0.000	5.2	3.4	0.000
	VATIONS: 0 DANCES	j 11 j	11			11	11			j 11 	11	
	SAMPLES	i 11	11			11	11			10	11	

COMPLIANCE : CRITERIA : NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

BOD - YES BOD - 30 mg/l TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - YES SS - 40 mg/l \* - EXCEEDS EFFLUENT CRITERIA

TP - YES TP - NONE ND - NO DATA

REMEDIAL MEASURES START DATE END DATE COMPLIANCE

MUNICIPALITY : ASSIGINACK

REGION

: NORTHEAST

PLANT : MANITOWANING LAGOON

DISTRICT

: SUDBURY

WORKS NUMBER : 110001408

OPERATING AUTHORITY : MINISTRY

TREATMENT : CONVENTIONAL LAGOON SEASONAL

MAJOR BASIN

WATERCOURSE : LAKE HURON

MINOR BASIN

: GREAT LAKES

: LAKE HURON

DESIGN CAPACITY : 0.25 1000 m3

IJC DESIGNATION : DIRECT

POPULATION	SERVED	:	440			
		T				

1987	A\	G DAY	l	5 DA	Y BOD		l	SUSPEN	DED SOLI	DS	į į	TOTAL PHO	SPHORUS
	F	LOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(100	00 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	1	0.207	1 10.0	ND			I I 16.0	ND			1 0.8	ND	
FEB	i	0.196	236.0	ND			295.0	ND			9.7	ND	
MAR	ĺ	0.378	135.0	ND			145.0	ND			6.6	ND	
APR	l	0.291	87.0	9.0			73.0	11.3			4.6	3.6	
YAP	1	0.213	12.0	ND			20.0	ND			1.2	ND	
JUN	1	0.224	28.0	ND			40.0	ND			0.9	ND	
JUL	1	0.202	15.0	ND			15.0	ND			1.3	ND	
NUG	1	0.209	15.0	ND			20.0	ND			1.5	ND	
SEP	1	0.210	27.0	ND			45.0	ND			1.7	ND	
CT	1	0.243	17.0	ND			25.0	ND			1.2	ND	
VOI	1	0.248	34.0	9.2			35.0	11.0			1.6	3.1	
DEC	 	0.391	163.0 	ND			450.0 	ND			3.6 	ND	
AVERA	GE:	0.251	65.0	9.1	-	2.451	98.0	11.2		3.008	1 2.9	3.4	0.914
DBSER EXCEE		ONS:12	12 	2			12 	2			1 12	2	
10 OF	SAME	PLES	13	24			13	24			13	24	

COMPLIANCE :

CRITERIA :

NOTE :

BOD - YES

BOD - 30 mg/l

TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - YES

SS - 40 mg/l

\* - EXCEEDS EFFLUENT CRITERIA

TP - YES TP - NONE

ND - NO DATA

ANTICIPATED

REMEDIAL MEASURES

START DATE END DATE

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

COMPLIANCE

MUNICIPALITY : BLACK RIVER MATHESON

: NORTHEAST

PLANT : HOLTYRE WPCP

REGION DISTRICT

: TIMMINS

WORKS NUMBER : 120000328

OPERATING AUTHORITY : MUNICIPAL WATERCOURSE

: BLACK RIVER

TREATMENT : COMMUNAL SEPTIC TANK

MAJOR BASIN

: ARCTIC WATERSHED

MINOR BASIN

: JAMES BAY

DESIGN CAPACITY : 0.00 1000 m3

POPULATION SERVED: 0

IJC DESIGNATION : NON IJC

1987	A1	G DAY	1	5 DA	Y BOD		1	SUSPEN	IDED SOLI	DS	1	TOTAL PHO	SPHORUS
	1	LOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(100	00 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	1	ND	ND	ND	0	ND	ND	ND	0	ND	ND	ND	ND
FEB	1	ND	ND	ND	0	ND	ND	ND	0	ND	ND	ND	ND
MAR	1	ND	ND	ND	0	ND	ND	ND	0	ND	ND	ND	ND
APR	1	ND	ND	ND	0	ND	ND	ND	0	ND	ND	ND	ND
MAY	1	ND	ND	ND	0	ND	ND	ND	0	ND	ND	ND	ND
JUN	1	ND	ND	ND	0	ND	ND	ND	0	ND	ND	ND	ND
JUL	1	ND	ND	ND	0	ND	ND	ND	0	ND	ND	ND	ND
AUG	1	ND	ND	ND	0	ND	ND	ND	0	ND	ND	ND	ND
SEP	1	ND	ND	ND	0	ND	ND	ND	0	ND	ND	ND	ND
OCT	1	ND	ND	ND	0	ND	ND	ND	0	ND	ND	ND	ND
NOV	1	ND	ND	ND	0	ND	ND	ND	0	ND	ND	ND	ND
DEC	1	ND	ND	ND	0	ND	ND	ND	0	ND	ND	ND	ND
			!				1				1		
AVERA	GE:	0.000	I I 0.0	0.0	0	0.000	1 0.0	0.0	0	0.000	1 0.0	0.0	0.000

COMPLIANCE :

OBSERVATIONS: 0

EXCEEDANCES NO OF SAMPLES

CRITERIA :

0

0

NOTE :

0

0

0

0

BOD - INSUFFICIENT DATA BOD - 30%

0

0

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

| 0

1 0

0

0

SS - INSUFFICIENT DATA SS - 50%

TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS. \* - EXCEEDS EFFLUENT CRITERIA

TP - INSUFFICIENT DATA TP - NONE

ND - NO DATA

ANTICIPATED

REMEDIAL MEASURES

START DATE END DATE

COMPLIANCE

MUNICIPALITY : BLACK RIVER MATHESON

PLANT : HOLTYRE-ROSS MINE WPCP

WORKS NUMBER : 120003209

TREATMENT : COMMUNAL SEPTIC TANK

REGION

: NORTHEAST

DISTRICT : TIMMINS

OPERATING AUTHORITY : MUNICIPAL

WATERCOURSE MAJOR BASIN : BLACK RIVER : ARCTIC WATERSHED

MINOR BASIN : JAMES BAY

DESIGN CAPACITY : 0.00 1000 m3

IJC DESIGNATION : NON IJC

POPULATION SERVED: 0

987	AVG DAY	1	5 DA	Y BOD		I	SUSPEN	DED SOLI	DS	1	TOTAL PHO	SPHORUS
- 1	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d
IAN	ND	ND	ND	0	ND	l   ND	ND	0	ND	I   ND	ND	ND
EB	ND	ND ND	ND	0	ND	ND	ND	0	ND	ND	ND	ND
IAR	ND	ND	ND	0	ND	ND	ND	0	ND	ND	ND	ND
APR	ND	ND	ND	0	ND	ND	ND	0	ND	ND	ND	ND
AY	ND	ND	ND	0	ND	ND	ND	0	ND	ND	ND	ND
IUN	ND	ND	ND	0	ND	ND	ND	0	ND	ND	ND	ND
IUL	ND	ND	ND	0	ND	ND ND	ND	0	ND	ND	ND	ND
UG	ND	ND	ND	0	ND	ND	ND	0	ND	ND	ND	ND
EP	ND	ND	ND	0	ND	ND	ND	0	ND	ND	ND	ND
CT	ND	ND	ND	0	ND	ND	ND	0	ND	ND	ND	ND
iov	ND	ND	ND	0	ND	ND ND	ND	0	ND	ND	ND	ND
EC	ND	ND	ND	0	ND	ND	ND	0	ND	ND	ND	ND
		-				<u> </u>				1		
VERA	E: 0.000	0.0	0.0	0	0.000	   0.0	0.0	0	0.000	   0.0	0.0	0.00
BSERV	ATIONS: 0	1 0	0			0	0			0	0	
XCEED	ANCES	ľ				ľ				ĺ		
O OF	SAMPLES	0	0			0	0			0	0	

COMPLIANCE :

CRITERIA :

BOD - INSUFFICIENT DATA BOD - 30%

SS - INSUFFICIENT DATA SS - 50%

TP - INSUFFICIENT DATA TP - NONE

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

\* - EXCEEDS EFFLUENT CRITERIA

ND - NO DATA

ANTICIPATED

REMEDIAL MEASURES

START DATE END DATE

COMPLIANCE

MUNICIPALITY : BLACK RIVER MATHESON

DISTRICT

: NORTHEAST

PLANT : MATHESON WPCP

: TIMMINS

WORKS NUMBER : 110000025

OPERATING AUTHORITY : MINISTRY

TREATMENT : EXTENDED AERATION

WATERCOURSE

: BLACK RIVER

MAJOR BASIN MINOR BASIN : JAMES BAY

: ARCTIC WATERSHED

DESIGN CAPACITY :

1.04 1000 m3

POPULATION SERVED :

920

IJC DESIGNATION : NON IJC

4007		Į .								!		
1987	AVG DAY	1	5 DA	Y BOD		l	SUSPEN	DED SOLI	DS	1	TOTAL PHO	SPHORUS
	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	l   0.660	1 104.0	5.2		3.432	   96.0	4.0		2.640	1 6.6	2.9	1.914
FEB	0.650	128.0	6.0		3.900	114.0	6.5		4.225	7.0	3.3	2.145
MAR	0.880	118.0	4.6		4.048	104.0	4.2		3.696	4.6	2.4	2.112
APR	0.980	41.0	9.4		9.212	34.0	8.0		7.840	2.9	1.3	1.274
MAY	0.800	112.0	14.6		11.680	67.0	5.8		4.640	4.6	2.6	2.080
JUN	0.820	47.0	10.0		8.200	80.0	4.0		3.280	4.7	1.6	1.312
JUL	0.886	24.0	2.4		2.126	35.0	6.0		5.316	2.7	1.6	1.418
AUG	0.698	32.0	0.1		0.070	100.0	3.0		2.094	3.5	3.2	2.234
SEP	0.661	80.0	2.3		1.520	265.0	4.0		2.644	6.0	2.0	1.322
OCT	0.919	42.0	ND		ND	60.0	ND		ND	4.2	ND	ND
NOV	0.687	81.0	2.9		1.992	82.0	5.0		3.435	3.9	1.6	1.099
DEC	3.292	38.0	2.1		6.913	65.0	8.0		26.336	3.9	2.1	6.913
	<u> </u>	<u> </u>								<u> </u>		
AVERA	GE: 0.994	71.0	5.4		4.827	   92.0	5.3		6.013	1 4.6	2.2	2.166
	VATIONS:12 DANCES	12 	11			12 	11			12 	11	
NO OF	SAMPLES	22	22			23	19			23	19	
		1				l				1		

COMPLIANCE :

CRITERIA :

NOTE :

BOD - YES

BOD - 25 mg/l

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - YES SS - 25 mg/l \* - EXCEEDS EFFLUENT CRITERIA

TP - YES

TP - NONE

ND - NO DATA

ANTICIPATED

REMEDIAL MEASURES

START DATE END DATE

COMPLIANCE

MUNICIPALITY : BLACK RIVER MATHESON

PLANT : RAMORE LAGOON

WORKS NUMBER : 110001104

TREATMENT : CONVENTIONAL LAGOON CONTINUOUS

( SEASONAL 1987 )

REGION

: NORTHEAST

DISTRICT : TIMMINS

WATERCOURSE

OPERATING AUTHORITY : MINISTRY : BLACK RIVER

: ARCTIC WATERSHED

MAJOR BASIN MINOR BASIN

: JAMES BAY

DESIGN CAPACITY : POPULATION SERVED :

0.12 1000 m3

IJC DESIGNATION : NON IJC

320

PUPULI	ATTON SERVED	. 32							- 20 1	_		
1987	I AVG DAY	1	5 DA	Y BOD			SUSPEN	DED SOLI	DS	l 	TOTAL PHO	OSPHORUS
	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	0.090	72.0	18.8		1.692	   52.0	26.9		2.421	5.3	3.2	0.288
FEB	0.090	215.0	21.5		1.935	226.0	22.6		2.034	9.4	5.0	0.447
MAR	0.138	86.0	27.1		3.740	89.0	18.0		2.484	5.5	4.3	0.589
APR	0.160	61.0	18.3		2.928	106.0	25.5		4.080	3.1	3.1	0.501
MAY	0.395	301.0	ND		ND	380.0	ND		ND	15.9	ND	ND
JUN	0.272	43.0	ND		ND	62.0	ND		ND	4.7	ND	ND
JUL	0.479	29.0	ND		ND	60.0	ND		ND	2.6	ND	ND
AUG	0.377	74.0	ND		ND	60.0	ND		ND	5.9	ND	ND
SEP	0.396	110.0	26.0		10.296	82.0	15.0		5.940	5.0	3.1	1.228
OCT	0.558	84.0	14.0		7.812	120.0	35.0		19.530	5.5	1.9	1.060
NOV	0.334	111.0	8.5		2.839	200.0	16.5		5.511	6.7	2.0	0.668
DEC	1.886	118.0 	5.7		10.750	225.0 	9.5		17.917	11.4 	2.9	5.375
AVERA	GE: 0.431	T   109.0	17.5	= :	5,249	1 138.0	21.1		7.490	6.8	3.2	1 270
	VATIONS:12	1 12	8		3.247	12	8		7.470	12	8	1.270
	DANCES		40							1		
NO OF	SAMPLES	23	18			23	18			23	18	

COMPLIANCE :

CRITERIA :

NOTE :

BOD - YES SS - YES

TP - YES

BOD - 30 mg/l

SS - 40 mg/l TP - NONE

TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

\* - EXCEEDS EFFLUENT CRITERIA ND - NO DATA

ANTICIPATED **COMPLIANCE** 

REMEDIAL MEASURES

UNDER CONSTRUCTION

FINAL DESIGN PHASE

CONSTRUCTION COMPLETED

87/04/30 88/09/01

87/10/01

START DATE END DATE

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

89/04/01

DISTRICT MUNICIPALITY : BLACK RIVER MATHESON : NORTHEAST : TIMMINS PLANT : VAL GAGNE LAGOON WORKS NUMBER : 120001559 OPERATING AUTHORITY : MINISTRY

TREATMENT : CONVENTIONAL LAGOON CONTINUOUS WATERCOURSE : CREEK TO BLACK RIVER

> ( SEASONAL 1987 ) MAJOR BASIN : ARCTIC WATERSHED

MINOR BASIN : JAMES BAY

IJC DESIGNATION : NON IJC DESIGN CAPACITY : 0.12 1000 m3

POPULATION SERVED : 300

	1						The second secon						
1987	A\	G DAY	1	5 DA	Y BOD		! 	SUSPEN	DED SOLI	DS	i :	TOTAL PHO	SPHORUS
	1	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(100	00 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	1	0.080	   300.0	ND		ND	   161.0	ND		ND	   9.0	ND	ND
FEB	i	0.090	1112.0	46.0		4.140	121.0	12.8		1.152	1 5.8	3.7	0.330
MAR	i	0.080	91.0	29.4		2.352	85.0	23.4		1.872	5.4	3.7	0.297
APR	ĺ	0.090	105.0	9.8		0.882	123.0	19.4		1.746	7.1	1.6	0.140
MAY	Ì	ND	105.0	ND		ND	74.0	ND		ND	6.2	ND	ND
JUN	1	ND	74.0	ND		ND	140.0	ND		ND	6.9	ND	ND
JUL	1	ND	41.0	ND		ND	67.0	ND		ND	4.2	ND	ND
AUG	1	ND	12.0	ND		ND	20.0	ND		ND	1.6	ND	ND
SEP	1	ND	90.0	16.0		ND	170.0	25.0		ND	4.8	2.0	ND
OCT	1	ND	96.0	8.5		ND	240.0	35.0		ND	5.6	1.2	ND
NOV	l	ND	89.0	13.2		ND	72.0	57.5		ND	3.7	1.5	ND
DEC	l	ND	124.0	8.1		ND	210.0	32.5		ND	8.6	2.1	ND
AVERA	CE.	0.085	   103.0	18.7		2,458	1 124.0	29.4		1 500	1	2.2	0.254
				7		2.430				1.590	• 1000000	2.2	0.256
EXCEE		ONS: 4 Es	12 	,			12 	7			12 	7	
	SAMI	DIFC	1 22	17			1 22	17			1 22	17	

COMPLIANCE : CRITERIA : NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

BOD - YES BOD - 30 mg/l TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - YES SS - 40 mg/l \* - EXCEEDS EFFLUENT CRITERIA

TP - YES TP - NONE ND - NO DATA

ANTICIPATED

REMEDIAL MEASURES START DATE END DATE COMPLIANCE

MUNICIPALITY : BLIND RIVER

REGION : NORTHEAST DISTRICT : SAULT STE. : SAULT STE. MARIE PLANT : BLIND RIVER WPCP

OPERATING AUTHORITY : MINISTRY WORKS NUMBER : 110002416 TREATMENT : EXTENDED AERATION

WATERCOURSE : LAKE HURON : GREAT LAKES MAJOR BASIN MAJOR BASIN : GREAT LAKE:
MINOR BASIN : LAKE HURON

IJC DESIGNATION : DIRECT DESIGN CAPACITY : 3.50 1000 m3

POPULATION SERVED :

4007	1		1		V 000		:	CHEDEN	DED COLT	00	ί,	OTAL DUO	CDHODITC
1987		VG DAY			Y BOD				DED SOLI		•	OTAL PHO	
		FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(100	00 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	1	2.083	76.0	9.8		20.413	   75.0	7.9		16.456	4.5	3.1	6.457
FEB	i	1.519	ND	ND		ND	88.0	8.7		13.215	ND	ND	ND
MAR	i	1.779	44.0	3.3		5.871	61.0	7.5		13.342	2.3	2.2	3.914
APR	i	1.591	20.0	2.6		4.137	50.0	2.8		4.455	3.3	2.1	3.34
MAY	i	1.528	66.0	2.6		3.973	73.0	7.1		10.849	3.5	3.0	4.584
JUN	i	2.247	124.0	3.5		7.864	83.0	5.9		13.257	6.6	3.1	6.96
JUL	i	2.133	90.0	1.8		3.839	74.0	4.4		9.385	5.3	2.9	6.07
AUG	i	2.023	l ND	ND		ND	80.0	4.6		9.306	ND	ND	ND
SEP	Ĺ	1.963	107.0	3.8		7.459	77.0	4.3		8.441	7.5	3.7	7.26
ост	İ	2.179	ND	ND		ND	81.0	5.1		11.113	ND	ND	ND
NOV	i	2.317	120.0	3.0		6.951	62.0	5.1		11.817	5.6	3.1	7.06
DEC	1 1	2.547	72.0 	2.6		6.622	73.0 	0.8		2.038	3.5 	2.1	5.29
AVERA	AGE:	1.992	80.0	3.7		7.459	73.0	5.4		10.306	4.7	2.8	5.66
OBSER EXCER		ONS:12	9 	9			12 	12			9 	9	
NO OF	SAM	PLES	15	15			53	48			14	15	

COMPLIANCE : CRITERIA : NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

BOD - YES BOD - 25 mg/l TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - YES SS - 25 mg/l \* - EXCEEDS EFFLUENT CRITERIA

TP - YES TP - NONE ND - NO DATA

ANTICIPATED

REMEDIAL MEASURES START DATE END DATE COMPLIANCE

MUNICIPALITY : BRUCE MINES

REGION : NORTHEAST
DISTRICT : SAULT STE. MARIE PLANT : BRUCE MINES LAGOON

WORKS NUMBER : 110001756 OPERATING AUTHORITY : MINISTRY

TREATMENT : CONVENTIONAL LAGOON SEASONAL WATERCOURSE : ST.JOSEPH CHL.TO L.HURON

MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE HURON

IJC DESIGNATION : DIRECT DESIGN CAPACITY : 0.28 1000 m3

POPULATION SERVED : 525

auran w	Г			man er d		~	1				Ti Ti		
1987	AVG DA	Y	1	5 DA	Y BOD		I	SUSPEN	DED SOLI	DS	1 :	TOTAL PHO	SPHORUS
	FLOW		INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3	/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	1 0.20	47	   31.0	ND			   18.0	ND			1 2 7	ND	
											2.7	ND	
FEB	0.2		210.0	ND			66.0	ND			5.4	ND	
MAR	0.3		68.0	ND			28.0	ND			1.8	ND	
APR	0.3	53	14.0	6.5			18.0	7.2			1.1	2.6	
MAY	0.20	62	175.0	ND			85.0	ND			10.0	ND	
JUN	0.2	46	76.0	ND			40.0	ND			6.6	ND	
JUL	0.2	38	86.0	ND			50.0	ND			13.0	ND	
AUG	0.2	89	76.0	ND			40.0	ND			7.9	ND	
SEP	0.2	58	70.0	ND			37.0	ND			4.3	ND	
OCT	0.34	40	22.0	ND			15.0	ND			1.9	ND	
NOV	0.44	42	19.0	ND			28.0	ND			11.6	ND	
DEC	0.44	42	118.0	ND			180.0	ND			6.2	ND	
	<u> </u>		<u> </u>				1			-7 fort - 1980	1		
AVERA	GE: 0.30	07	   80.0	6.5		2.294	50.0	7.2		2.542	5.2	2.6	0.918
OBSER	VATIONS: 12	2	1 12	1			12	1			12	1	
EXCEE	DANCES		1				1				Ĭ		
NO OF	SAMPLES		16	1			16	1			1 15	1	
			l				İ				i		

COMPLIANCE : CRITERIA : NOTE :

> BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS BOD - YES

BOD - 30 mg/l SS - 40 mg/l TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - YES \* - EXCEEDS EFFLUENT CRITERIA

TP - YES TP - NONE ND - NO DATA

ANTICIPATED REMEDIAL MEASURES START DATE END DATE COMPLIANCE

MUNICIPALITY : BURK'S FALLS

REGION

: NORTHEAST

PLANT : BURKS FALLS LAGOON

TREATMENT : CONVENTIONAL LAGOON SEASONAL

DISTRICT

: NORTH BAY

WORKS NUMBER : 110001426

OPERATING AUTHORITY : MINISTRY WATERCOURSE

: MAGNETAWAN RIVER

MAJOR BASIN

: GREAT LAKES

MINOR BASIN

: LAKE HURON

DESIGN CAPACITY :

0.68 1000 m3

: INDIRECT

POPULATION SERVED :

800

IJC DESIGNATION

1987	AVG DAY	1	5 DA	Y BOD		1	SUSPEN	DED SOLI	DS	1	TOTAL PHO	SPHORUS
	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	0.298	1 107.0	ND			   89.0	ND			6.3	ND	
FEB	0.291	114.0	ND			181.0	ND			7.4	ND	
MAR	0.403	69.0	ND			69.0	ND			4.7	ND	
APR	0.416	76.0	ND			71.0	ND			5.2	ND	
MAY	0.330	105.0	7.0			134.0	16.0			5.4	3.9	
JUN	0.343	86.0	ND			101.0	ND			5.8	ND	
JUL	0.324	70.0	ND			103.0	ND			6.9	ND	
AUG	0.373	79.0	ND			105.0	ND			5.1	ND	
SEP	0.327	110.0	ND			120.0	ND			8.5	ND	
OCT	0.340	77.0	ND			76.0	ND			5.4	ND	
NOV	0.361	111.0	6.3			105.0	1.8			5.1	3.2	
DEC	0.341	89.0	ND			105.0	ND			6.7	ND	
	<u> </u>	<u> </u>				1				<u> </u>		
AVERA	GE: 0.346	91.0	6.7		2.292	1 105.0	8.9		2.965	6.0	3.6	1.224
	VATIONS:12 DANCES	12 	2			12 	2			12	2	
NO OF	SAMPLES	1 16	6			1 16	6			17	6	

COMPLIANCE :

CRITERIA :

NOTE :

BOD - YES

BOD - 30 mg/l

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - YES

SS - 40 mg/l

\* - EXCEEDS EFFLUENT CRITERIA

TP - YES

TP - NONE

ND - NO DATA

ANTICIPATED

REMEDIAL MEASURES

START DATE END DATE

COMPLIANCE

MUNICIPALITY : CALDWELL REGION : NORTHEAST
PLANT : VERNER LAGOON DISTRICT : NORTH BAY
WORKS NUMBER : 110001872 OPERATING AUTHORITY : MINISTRY

TREATMENT : CONVENTIONAL LAGOON SEASONAL WATERCOURSE : VEUVE RIVER

PHOSPHORUS REMOVAL - BATCH MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE HURON

DESIGN CAPACITY: 0.47 1000 m3 IJC DESIGNATION: INDIRECT

POPULATION SERVED : 1116

1987	AVG DAY	1	5 DA	Y BOD		1	SUSPEN	DED SOLI	DS	1 1	OTAL PHO	SPHORUS
	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	0.361	1 169.0	ND			1 107.0	ND			3.4	ND	
FEB	0.330	116.0	ND			95.0	ND			5.3	ND	
MAR	0.528	272.0	43.3			99.0	25.8			10.0	3.3 *	
APR	0.616	47.0	29.9			54.0	12.9			2.2	1.9 *	
MAY	0.489	109.0	12.5			102.0	24.6			6.4	0.7	
JUN	0.462	63.0	ND			158.0	ND			3.3	ND	
JUL	0.394	82.0	11.7			97.0	35.0			5.6	1.1 *	
AUG	0.384	69.0	ND			20.0	ND			5.0	ND	
SEP	0.369	98.0	ND			155.0	ND			8.7	ND	
OCT	0.439	95.0	2.8			95.0	30.0			4.2	0.6	
NOV	0.512	67.0	ND			100.0	ND			4.4	ND	
DEC	0.575 	55.0 	8.7			86.0 	2.6			3.2 	0.7	
AVERA	GE: 0.455	104.0	18.2		9.706	97.0	21.8		10.342	   5.1	1.4 *	0.717
OBSER	VATIONS:12	1 12	6			12	6			1 12	6	
EXCEE	DANCES	1				Ì				i	3	
NO OF	SAMPLES	20	19			21	19			1 21	19	

COMPLIANCE : CRITERIA : NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
BOD - YES BOD - 30 mg/l TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - YES SS - 40 mg/L \* - EXCEEDS EFFLUENT CRITERIA

TP - NO TP - 1.0 mg/l ND - NO DATA

REMEDIAL MEASURES START DATE END DATE COMPLIANCE

COLLECTION SYSTEM DEFICIENCY UNDER STUDY 87/10/31
INFILTRATION PROBLEMS ARE BEING CORRECTED 88/06/01 88/10/31

MUNICIPALITY : CAPREOL REGION : NORTHEAST DISTRICT : SUDBURY PLANT : CAPREOL LAGOON

OPERATING AUTHORITY : MUNICIPAL WORKS NUMBER : 120001210

TREATMENT : EXFILTRATION LAGOON MAJOR BASIN : GREAT LAKES : LAKE HURON MINOR BASIN

WATERCOURSE : NO DISC TO SURFACE WATER

DESIGN CAPACITY : 1.54 1000 m3 IJC DESIGNATION : INDIRECT

POPULATION SERVED : 3352

1987	AVG DAY	1	5 DA	Y BOD		l	SUSPEN	DED SOLI	DS	1	OTAL PHO	SPHORUS
	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	   4.692	l ND	ND		ND	I   ND	ND		ND	ND	ND	ND
FEB	3.536	ND	ND		ND	ND	ND		ND	ND	ND	ND
MAR	4.752	40.0	ND		ND	44.0	ND		ND	3.3	ND	ND
APR	6.079	ND	ND		ND	ND ND	ND		ND	ND	ND	ND
MAY	5.405	ND	15.3		82.697	ND ND	32.8		177.284	ND	1.7	9.24
JUN	2.967	ND	10.3		30.560	ND	53.1		157.548	ND	2.1	6.29
JUL	2.145	ND	ND		ND	ND ND	ND		ND	ND	ND	ND
AUG	2.548	ND	6.6		16.817	ND	10.0		25.480	ND	2.2	5.60
SEP	2.365	ND	ND		ND	ND	ND		ND	ND	ND	ND
OCT	2.638	ND	20.0		52.760	ND	30.0		79.140	ND	2.2	5.80
NOV	2.870	ND ND	14.0		40.180	ND	20.0		57.400	ND	2.7	7.74
DEC	ND	ND 	ND		ND	ND 	ND		ND	ND 	ND	ND
AVERA	GE: 3.636	40.0	13.2		44.603	44.0	29.2		99.370	3.3	2.2	6.93
	VATIONS:11 DANCES	1 1	5			] 1 	5			1 	5	
NO OF	SAMPLES	j 1	5			1 1	5			1 1	5	

CRITERIA : NOTE : COMPLIANCE :

> BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS BOD - YES BOD - 30 mg/l TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - YES SS - 40 mg/l \* - EXCEEDS EFFLUENT CRITERIA

TP - YES TP - NONE ND - NO DATA

ANTICIPATED REMEDIAL MEASURES START DATE END DATE COMPLIANCE

88/06/01 UNDER DISCUSSION WITH MUNICIPALITY 88/11/30 89/12/31

MUNICIPALITY : CASEY

REGION

: NORTHEAST

PLANT : BELLE VALLEE LAGOON

DISTRICT

: TIMMINS

WORKS NUMBER : 120001808

OPERATING AUTHORITY : MUNICIPAL

TREATMENT : CONVENTIONAL LAGOON SEASONAL

WATERCOURSE MAJOR BASIN

: BLANCHE RIVER : GREAT LAKES

: OTTAWA RIVER

MINOR BASIN

DESIGN CAPACITY : 0.12 1000 m3

IJC DESIGNATION

: NON IJC

POPULATION SERVED :

0

1987	AV	G DAY	1	5 DA	Y BOD		1	SUSPEN	DED SOLI	DS	1	TOTAL PHO	SPHORUS
	F	LOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(100	0 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d
JAN		ND	ND	ND			ND	ND			ND	ND	
FEB	1	ND	ND	ND			ND	ND			ND	ND	
MAR	1	ND	ND	ND			ND	ND			ND	ND	
APR	l	ND	277.0	ND			44.0	ND			11.2	ND	
MAY	1	ND	ND	16.3			ND	98.4			ND	1.9	
JUN	ı	ND	ND	ND			ND	ND			ND	ND	
JUL	1	ND	780.0	6.0			770.0	30.0			26.0	8.5	
AUG	1	ND	ND	ND			ND	ND			ND	ND	
SEP	1	ND	ND	ND			ND	ND			ND	ND	
OCT	l	ND	760.0	1.6			560.0	20.0			19.0	3.7	
NOV	1	ND	210.0	2.2			60.0	5.0			14.0	2.8	
DEC	1	ND	ND	ND			ND	ND			ND	ND	
AVERA	GE:	0.000	   507.0	6.5		0.000	   358.0	38.4		0.000	117.6	4.2	0.00
OBSER	VATIO	NS: 0	1 4	4		11.00 E 0 E 0 E 0 E 0 E 0 E 0 E 0 E 0 E 0	4	4			1 4	4	0.00
XCEE	DANCE	s	i				i				1	12	
10 OF	SAMP	LES	i 4	4			i 4	4			1 4	4	

COMPLIANCE :

CRITERIA :

NOTE :

BOD - YES

BOD - 30 mg/l

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - YES

SS - 40 mg/l

\* - EXCEEDS EFFLUENT CRITERIA

TP - YES

TP - NONE

ND - NO DATA

ANTICIPATED

REMEDIAL MEASURES

START DATE END DATE

COMPLIANCE

MUNICIPALITY : CASIMIR J.A. REGION : NORTHEAST PLANT : ST.CHARLES LAGOON DISTRICT : SUDBURY

WORKS NUMBER: 110002256 OPERATING AUTHORITY: MINISTRY

TREATMENT : CONVENTIONAL LAGOON SEASONAL WATERCOURSE : MCPHERSON CREEK W.BRANCH

PHOSPHORUS REMOVAL - BATCH MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE HURON

DESIGN CAPACITY : 0.54 1000 m3 IJC DESIGNATION : INDIRECT

POPULATION SERVED: 280

	The second control of the second control of					1						
1987	AVG DAY	).k	5 DA	Y BOD		İ	SUSPEN	DED SOLI	DS	, ·	TOTAL PHO	SPHORUS
	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	   0.106	111.0	ND			87.0	ND			4.6	ND	
FEB	0.205	99.0	ND			77.0	ND			4.9	ND	
MAR	0.262	93.0	ND			80.0	ND			5.6	ND	
APR	0.120	29.0	ND			140.0	ND			3.1	ND	
MAY	0.130	82.0	ND			64.0	ND			5.5	ND	
JUN	0.122	112.0	ND			90.0	ND			6.1	ND	
JUL	0.140	117.0	ND			86.0	ND			6.3	ND	
AUG	0.068	66.0	ND			130.0	ND			7.1	ND	
SEP	ND	ND	ND			ND	ND			ND	ND	
OCT	ND	ND	ND			ND	ND			ND	ND	
NOV	0.084	100.0	ND			170.0	ND			8.8	ND	
DEC	0.089	93.0	ND			79.0	ND			4.4	ND	
!	1	1				<u> </u>	150-1710-1-50		***********	<u> </u>		
   AVERA	GE: 0.133	90.0	0.0		0.000	1 100.0	0.0		0.000	5.6	0.0	0.000
OBSER	VATIONS:10	10	0			10	0			10	0	
EXCEE	DANCES	1				1				Ì		
NO OF	SAMPLES	17	0			17	0			17	0	
İ		1				I				1		

COMPLIANCE : CRITERIA : NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

BOD - NO DISCHARGE BOD - 30 mg/l TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - NO DISCHARGE SS - 40 mg/l \* - EXCEEDS EFFLUENT CRITERIA

TP - NO DISCHARGE TP - 1.0 mg/L ND - NO DATA

ANTICIPATED

REMEDIAL MEASURES START DATE END DATE COMPLIANCE

MUNICIPALITY : CHAPLEAU

PLANT : CHAPLEAU LAGOON

WORKS NUMBER: 110002149

TREATMENT : AERATED LAGOON

CONTINUOUS DISCHARGE

SERIES OPERATION

DESIGN CAPACITY : 4.54 1000 m3

: NORTHEAST

REGION DISTRICT

: SUDBURY

OPERATING AUTHORITY : MINISTRY

WATERCOURSE

: NEBSKWASH

MAJOR BASIN

: ARCTIC WATERSHED

MINOR BASIN : JAMES BAY

IJC DESIGNATION : NON IJC

POPULA	ATION SERVED	: 245	0									
1987	AVG DAY		5 DA	Y BOD			SUSPEN	DED SOLI	DS		TOTAL P	HOSPHORUS
	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	l   1.592	   440.0	20.0		31.840	   410.0	19.5		31.044	1 9.3	1.5	2.356
FEB	1.750	81.0	17.5		30.625	63.0	17.4		30.450	2.1	1.6	2.800
MAR	1.631	50.0	14.6		23.813	53.0	14.7		23.976	1.8	1.4	2.283
APR	1.481	100.0	14.9		22.067	156.0	22.0		32.582	2.4	1.4	2.073
MAY	1.377	56.0	6.0		8.262	75.0	22.5		30.983	4.0	1.4	1.928
JUN	1.865	137.0	6.4		11.936	177.0	7.5		13.988	2.0	0.8	1.492
JUL	1.590	130.0	15.0		23.850	140.0	5.0		7.950	2.4	0.9	1.351
AUG	1.432	18.0	3.8		5.442	40.0	2.0		2.864	2.1	1.0	1.432
SEP	1.152	79.0	8.0		9.216	72.0	7.0		8.064	3.8	14.0	16.128
OCT	1.099	68.0	16.0		17.584	65.0	17.5		19.232	3.4	1.3	1.429
NOV	0.759	152.0	15.5		11.764	220.0	15.0		11.385	5.2	1.9	1.404
DEC	0.479 	154.0 	17.5		8.383	235.0 	12.5		5.987	4.0 	1.5	0.719
AVERAG	GE: 1.351	122.0	12.9		17.065	1 142.0	13.6		18.209	1 3.5	2.4	2.950
OBSERV EXCEED	ATIONS:12 DANCES	12	12			12 	12			12 	12	20
NO OF	SAMPLES	21	21			21	21			22	21	

COMPLIANCE :

CRITERIA :

NOTE :

BOD - YES

BOD - 30 mg/l

SS - 40 mg/l

TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS. \* - EXCEEDS EFFLUENT CRITERIA

SS - YES TP - YES

TP - NONE

ND - NO DATA

ANTICIPATED

REMEDIAL MEASURES

START DATE END DATE

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

COMPLIANCE

MUNICIPALITY: COCHRANE REGION: NORTHEAST
PLANT: COCHRANE WPCP
DISTRICT: TIMMINS
HORKS NUMBER: 120000355

WORKS NUMBER: 120000355

OPERATING AUTHORITY: MUNICIPAL
TREATMENT: EXTENDED ARRATION

WATERCOURSE: LILLABELLE

ATMENT : EXTENDED AERATION WATERCOURSE : LILLABELLE LAKE

EFFLUENT POLISHING MAJOR BASIN : ARCTIC WATERSHED

MINOR BASIN : JAMES BAY

DESIGN CAPACITY : 3.40 1000 m3 IJC DESIGNATION : NON IJC

POPULATION SERVED: 4600

1987	AVG DAY	1	5 DA	Y BOD		l	SUSPEN	DED SOLI	DS	] 1	OTAL PHO	SPHORUS
1	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	   3.607	130.0	5.0		18.035	l   189.0	46.0		165.922	   3.1	0.6	2.164
FEB	3.241	230.0	15.0		48.615	150.0	48.0		155.568	0.4	0.2	0.648
MAR	4.334	178.0	46.0		199.364	149.0	53.7		232.736	4.8	1.0	4.334
APR	3.950	91.0	19.0		75.050	94.0	53.4		210.930	6.2	1.2	4.66
MAY	3.569	140.0	51.7		184.517	306.0	185.0		660.265	16.3	6.4	22.663
JUN	4.200	88.0	130.0		546.000	121.0	747.0		3137.400	4.1	5.1	21.42
JUL	4.775	ND	ND		ND	ND	ND		ND	ND	ND	ND
AUG	4.189	54.0	8.0		33.512	120.0	25.0		104.725	3.5	1.6	6.70
SEP	2.128	52.0	15.0		31.920	150.0	75.0		159.600	3.8	3.0	6.38
OCT	3.887	44.0	62.0		240.994	46.0	310.0		1204.970	3.3	7.5	28.95
NOV	3.392	ND	ND		ND	ND	ND		ND	ND	ND	ND
DEC	3.609	96.0 	18.0		64.962	160.0 	30.0		108.270	5.2 	1.1	3.970
AVERA	GE: 3.740	110.0	37.0 *	n	144.297	148.0	157.3 *	e.	614.039	1 5.1	2.8	10.190
	VATIONS:12	10	10			10	10			10	10	
	DANCES	!	_			l				l		
NO OF	SAMPLES	8	8			8	8			8	8	

COMPLIANCE : CRITERIA : NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

BOD - NO BOD - 25 mg/l TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - NO SS - 25 mg/l \* - EXCEEDS EFFLUENT CRITERIA

TP - YES TP - NONE ND - NO DATA

REMEDIAL MEASURES

START DATE

END DATE

COMPLIANCE

90/12/31

COLLECTION SYSTEM DEFICIENCY UNDER STUDY

FACILITY EXPANSION/UPGRADE-FUNDING UNDER REVIEW

90/12/31
90/12/31

MUNICIPALITY : COSBY M.M.

REGION

: NORTHEAST

PLANT : NOELVILLE LAGOON

DISTRICT

: SUDBURY

WORKS NUMBER: 110002425

OPERATING AUTHORITY : MINISTRY

TREATMENT : CONVENTIONAL LAGOON SEASONAL

WATERCOURSE MAJOR BASIN

: WOLF RIVER : GREAT LAKES

MINOR BASIN

: LAKE HURON

DESIGN CAPACITY :

0.79 1000 m3

IJC DESIGNATION : INDIRECT

POPULATION SERVED : 551

1987	AVG DAY	1	5 DA	Y BOD		1	SUSPEN	DED SOLI	DS	1 1	TOTAL PHO	SPHORUS
	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	0.184	256.0	ND			248.0	ND			8.6	ND	
FEB	0.183	225.0	ND			109.0	ND			7.1	ND	
MAR	0.246	196.0	ND			175.0	ND			7.5	ND	
APR	0.246	120.0	ND			285.0	ND			5.2	ND	
MAY	0.220	190.0	ND			143.0	ND			9.7	ND	
JUN	0.237	126.0	ND			193.0	ND			6.9	ND	
JUL	0.184	166.0	ND			247.0	ND			9.5	ND	
AUG	0.204	79.0	ND			140.0	ND			7.1	ND	
SEP	0.173	180.0	ND			215.0	ND			7.4	ND	
OCT	0.202	71.0	ND			56.0	ND			4.1	ND	
NOV	0.204	89.0	ND			115.0	ND			4.6	ND	
DEC	0.221 	146.0 	ND			175.0 	ND			6.9 	ND	
AVERA	GE: 0.209	T   154.0	0.0		0.000	175.0	0.0		0.000	7.1	0.0	0.00

1 12

COMPLIANCE :

EXCEEDANCES NO OF SAMPLES

CRITERIA :

0

0

NOTE :

33

BOD - NO DISCHARGE

BOD - 30 mg/l

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

| 12

| 33 1

0

SS - NO DISCHARGE SS - 40 mg/l \* - EXCEEDS EFFLUENT CRITERIA

TP - NO DISCHARGE

33

TP - NONE

ND - NO DATA

0

0

ANTICIPATED

REMEDIAL MEASURES

OBSERVATIONS:12 | 12

START DATE END DATE

COMPLIANCE

MUNICIPALITY : DUBREUILVILLE

REGION

: NORTHEAST

PLANT : DUBREUILVILLE LAGOON (IN OPERATION 1987)

DISTRICT

OPERATING AUTHORITY : MINISTRY

:

:

WORKS NUMBER : 110001970

TREATMENT : EXFILTRATION LAGOON

WATERCOURSE

: NO DISC.TO SURFACE WATER

MAJOR BASIN

: GREAT LAKES

MINOR BASIN

: LAKE SUPERIOR

DESIGN CAPACITY : 0.00 1000 m3

n

IJC DESIGNATION

POPUL	ATIO	N SERVED	:	0									
1987	   A	VG DAY	 	5 DA	Y BOD		l	SUSPEN	DED SOLI	DS		TOTAL PHO	SPHORUS
	1 1	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(100	00 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d
JAN	i	ND	I   ND	ND		ND	ND	ND		ND	ND	ND	ND
FEB	Ì	ND	ND	ND		ND	ND	ND		ND	ND	ND	ND
MAR	1	ND	ND	ND		ND	ND	ND		ND	ND	ND	ND
APR	1	ND	ND	ND		ND	ND	ND		ND	ND	ND	ND
MAY	I	ND	ND	ND		ND	ND	ND		ND	ND	ND	ND
JUN	l	ND	ND	ND		ND	ND	ND		ND	ND	ND	ND
JUL	1	ND	ND	ND		ND	ND	ND		ND	ND	ND	ND
AUG	1	ND	ND	ND		ND	ND	ND		ND	ND	ND	ND
SEP	l	ND	ND	ND		ND	ND	ND		ND	ND	ND	ND
OCT	1	ND	ND	ND		ND	ND	ND		ND	ND	ND	ND
NOV	1	ND	ND	ND		ND	ND	ND		ND	ND	ND	ND
DEC	 	ND	ND 	ND		ND	ND	ND		ND	ND	ND	ND
AVERA	GE:	0.000	0.0	0.0		0.000	   0.0	0.0		0.000	1 0.0	0.0	0.00
OBSER'		ONS: 0 ES	0 	0			i 0	0		10.242 S 20.20	0	0	0.00
NO OF	SAMI	PLES	j 0	0			0	0			0	0	

COMPLIANCE :

CRITERIA :

NOTE :

BOD - NO DISCHARGE SS - NO DISCHARGE BOD - 30 mg/l

SS - 40 mg/l

TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

\* - EXCEEDS EFFLUENT CRITERIA

TP - NO DISCHARGE TP - NONE ND - NO DATA

ANTICIPATED

REMEDIAL MEASURES

START DATE END DATE

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

COMPLIANCE

MUNICIPALITY : ELLIOT LAKE

PLANT : ESTEN LAKE WPCP

WORKS NUMBER: 120001121

TREATMENT : CONVENTIONAL ACTIVATED SLUDGE

PHOSPHORUS REMOVAL - CONTINUOUS

EFFLUENT POLISHING

DESIGN CAPACITY : 13.00 1000 m3

POPULATION SERVED: 19000

REGION DISTRICT

: NORTHEAST

: SAULT STE. MARIE

OPERATING AUTHORITY : MUNICIPAL WATERCOURSE

: ESTEN LAKE

MAJOR BASIN

: GREAT LAKES

MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE HURON

IJC DESIGNATION : INDIRECT

1987	AVG	DAY	Ĭ	5 DA	Y BOD		1	SUSPEN	DED SOLI	DS	1	TOTAL PHO	SPHORUS
	FL	OW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000	m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	! 	5.583	67.0	7.9		44.106	1 120.0	8.8		49.130	   3.9	0.5	2.847
FEB	1	5.248	99.0	6.3		33.062	142.0	8.9		46.707	3.8	0.7	3.464
MAR	1	7.195	193.0	4.1		29.499	125.0	11.7		84.181	3.5	0.6	4.533
APR	1	7.171	117.0	24.8		177.841	81.0	6.4		45.894	2.9	0.6	4.589
MAY	1	6.205	52.0	7.7		47.779	76.0	6.6		40.953	2.9	0.6	3.909
JUN	1	6.300	56.0	14.0		88.200	77.0	4.9		30.870	3.1	0.8	4.977
JUL	1	6.653	35.0	36.0		239.508	57.0	5.5		36.591	2.9	0.7	4.790
AUG	1	6.618	110.0	8.0		52.944	54.0	5.6		37.061	3.5	0.8	5.427
SEP	1	6.492	74.0	9.0		58.428	62.0	7.7		49.988	3.8	0.7	4.674
OCT	1	6.892	74.0	6.8		46.866	82.0	8.2		56.514	3.6	0.6	4.066
NOV	1	6.992	63.0	16.0		111.872	72.0	12.3		86.002	3.5	1.0	6.712
DEC	1	7.042	65.0	14.0		98.588	75.0	15.0		105.630	3.6	1.0	6.831
	1		<u> </u>				<u> </u>		£		<u> </u>	V	
AVERA	GE:	6.533	84.0	12.9		85.724	85.0	8.5		55.793	3.4	0.7	4.735
	VATION DANCES		1 12	12			12 	12			12 	12	
NO OF	SAMPL	ES	1 12	12			101	173			101	154	

COMPLIANCE :

CRITERIA :

BOD - 25 mg/l

TP - 1.0 mg/l

ss - 25 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

\* - EXCEEDS EFFLUENT CRITERIA

ND - NO DATA

ANTICIPATED

REMEDIAL MEASURES

BOD - YES

SS - YES

TP - YES

START DATE END DATE

COMPLIANCE

MUNICIPALITY : ENGLEHART REGION : NORTHEAST PLANT : ENGLEHART LAGOON DISTRICT : TIMMINS

WORKS NUMBER : 110000187 OPERATING AUTHORITY : MINISTRY

TREATMENT : CONVENTIONAL LAGOON CONTINUOUS WATERCOURSE : ENGLEHART RIVER

MAJOR BASIN MINOR BASIN : GREAT LAKES : OTTAWA RIVER

DESIGN CAPACITY : 0.90 1000 m3 IJC DESIGNATION : NON IJC

POPULATION SERVED: 1730

1987	AVG DAY	1	5 DA	Y BOD		I	SUSPEN	DED SOLI	DS	i i	TOTAL PHO	SPHORUS
	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	1.400	1 127.0	12.8		17.920	   152.0	17.9		25.060	   4.5	2.9	4.060
FEB	1.060	138.0	51.5		54.590	168.0	17.0		18.020	6.8	3.4	3.604
MAR	1.450	46.0	29.5		42.775	138.0	16.5		23.925	3.0	1.8	2.610
APR	1.820	32.0	13.0		23.660	115.0	55.0		100.100	3.0	1.6	2.912
MAY	1.811	62.0	7.5		13.582	67.0	10.0		18.110	3.8	1.6	2.89
JUN	0.950	52.0	3.8		3.610	70.0	3.0		2.850	3.5	2.3	2.18
JUL	1.460	26.0	3.6		5.256	50.0	3.0		4.380	2.1	2.3	3.35
AUG	1.240	31.0	3.2		3.968	50.0	6.0		7.440	6.9	2.0	2.48
SEP	1.360	60.0	4.0		5.440	108.0	1.0		1.360	3.8	1.1	1.49
OCT	1.480	50.0	1.9		2.812	85.0	3.5		5.180	3.3	0.9	1.33
NOV	1.260	60.0	2.4		3.024	180.0	3.6		4.536	3.6	0.6	0.75
DEC	1.480 	137.0 	2.4		3.552	285.0 	2.5		3.700	5.4	0.5	0.74
AVERA	GE: 1.398	68.0	11.3		15.016	1 122.0	11.6		17.888	1 4.1	1.7	2.36
	VATIONS:12 DANCES	12 	12			12 	12			12	12	2.30
	SAMPLES	24	24			24	24			24	22	

COMPLIANCE : CRITERIA : NOTE :

> BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS BOD - YES BOD - 30 mg/l

TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS. \* - EXCEEDS EFFLUENT CRITERIA SS - YES

SS - 40 mg/l

TP - YES TP - NONE ND - NO DATA

ANTICIPATED REMEDIAL MEASURES START DATE END DATE COMPLIANCE

MUNICIPALITY : ESPANOLA PLANT : ESPANOLA WPCP WORKS NUMBER : 110000212

TREATMENT : PRIMARY

REGION : NORTHEAST DISTRICT : SUDBURY OPERATING AUTHORITY : MINISTRY

IJC DESIGNATION : INDIRECT

WATERCOURSE : SPANISH RIVER MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE HURON

DESIGN CAPACITY : 3.00 1000 m3

POPULATION SERVED :

5200

FOFUL	ATTON	SERVED	: 520	,,,									
1987	AV	G DAY	ľ	5 DA	Y BOD		1	SUSPEN	DED SOLI	DS	ļ .	TOTAL PHO	SPHORUS
	F	LOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(100	0 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN		3.035	   108.0	70.6	35	214.271	l I 79.0	30.3	62	91.961	15.3	5.0	15.175
FEB	i	3.085	118.0	87.0	26	268.395	78.0	40.2	48	124.017		5.0	15.425
MAR	i	3.320	168.0	97.7	42	324.364	58.0	36.6	37	121.512		4.9	16.268
APR	i	3.041	107.0	ND	100	ND	54.0	ND	100	ND	5.8	ND	ND
MAY	i	3.287	110.0	56.0	49	184.072	135.0	77.5	43	254.743	5.3	5.3	17.421
JUN	Ì	3.363	66.0	42.3	36	142.255	87.0	50.0	43	168.150	5.6	4.7	15.806
JUL	ĺ	3.208	66.0	42.5	36	136.340	88.0	52.5	40	168.420	5.1	3.8	12.190
AUG	1	2.922	68.0	25.0	63	73.050	120.0	40.0	67	116.880	6.0	4.9	14.318
SEP	l	3.143	89.0	59.3	33	186.380	110.0	60.0	45	188.580	5.8	4.7	14.772
OCT	l	2.983	122.0	71.0	42	211.793	130.0	67.5	48	201.353	5.9	4.2	12.529
NOV	1	2.872	105.0	52.0	50	149.344	167.0	47.5	72	136.420	5.5	5.7	16.370
DEC	1	2.924	117.0	58.5	50	171.054	160.0	67.5	58	197.370	4.8	5.1	14.912
			<u> </u>				<u> </u>				<u> </u>		
AVERA	GE:	3.099	1 104.0	60.2	47	187.393	1 106.0	51.8	55	160.855	5.4	4.8	15.017
OBSER			12 	11			12 	11			12 	11	
NO OF	SAMP	LES	24	23			1 24	23			1 24	23	

COMPLIANCE :

CRITERIA :

NOTE :

BOD - YES BOD - 30% SS - YES SS - 50% TP - YES TP - NONE BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

\* - EXCEEDS EFFLUENT CRITERIA

ND - NO DATA

ANTICIPATED

REMEDIAL MEASURES

START DATE END DATE

COMPLIANCE

IMPROVING SLUDGE QUALITY

86/01/01

MUNICIPALITY : FAUQUIER-STRICKLAND REGION : NORTHEAST
PLANT : FAUQUIER LAGOON DISTRICT : TIMMINS
LODGE NUMBER : 11001703

WORKS NUMBER : 110001792 OPERATING AUTHORITY : MINISTRY
TREATMENT : CONVENTIONAL LAGOON SEASONAL WATERCOURSE : GROUNDHOO

WATERCOURSE : GROUNDHOG RIVER
MAJOR BASIN : ARCTIC WATERSHEE

MAJOR BASIN : ARCTIC WATERSHED
MINOR BASIN : JAMES BAY

DESIGN CAPACITY : 0.27 1000 m3 IJC DESIGNATION : NON IJC

POPULATION SERVED: 650

	ULATION SERVED : 650		33.3				r		
AY BOD	7   AVG DAY   5	i		SUSPEN	DED SOLI	s	į ,	OTAL PHO	SPHORUS
	FLOW   INF EF	LOAD	INF	EFF		LOAD	INF	EFF	LOAD
(%REM)	(1000 m3/d)  (mg/L) (mg/	(kg/d)  (r	mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d
	0.274   ND ND	i	ND	ND			ND	ND	
	0.279   ND ND	1	ND	ND			ND	ND	
	0.317   120.0 ND	1	90.0	ND			4.3	ND	
	0.388   20.0 ND	1.	110.0	ND			2.9	ND	
	0.328   62.0 ND	1 :	150.0	ND			6.1	ND	
	0.268   ND ND	1	ND	ND			ND	ND	
	.   0.346   36.0 ND	1	70.0	ND			3.6	ND	
	i   0.325   ND ND	1	ND	ND			ND	ND	
	0.451   24.0 ND	1 .	150.0	ND			3.8	ND	
	0.415   ND ND	1	ND	ND			ND	ND	
	/   0.458   ND ND	ĺ	ND	ND			ND	ND	
	0.343   ND ND	1	ND	ND			ND	ND	
<del></del>		<del>-</del>					<u> </u>		
	RAGE: 0.349   52.0 0.	0.000	114.0	0.0		0.000	4.1	0.0	0.00
	SERVATIONS:12   5 0 SEEDANCES	1	5	0			5 	0	
	OF SAMPLES   5 0	i	5	0			I 5	0	
	OF SAMPLES   5 0	1	5	0			5 	0	

COMPLIANCE : CRITERIA : NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
BOD - INSUFFICIENT DATA BOD - 30 mg/l TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - INSUFFICIENT DATA SO - 30 mg/l \* - EXCEEDS EFFLUENT CRITERIA

TP - INSUFFICIENT DATA TP - NONE ND - NO DATA

REMEDIAL MEASURES ANTICIPATED

START DATE END DATE COMPLIANCE

MUNICIPALITY : GORE BAY REGION : NORTHEAST DISTRICT : SUDBURY PLANT : GORE BAY LAGOON

WORKS NUMBER : 110002513 OPERATING AUTHORITY : MINISTRY TREATMENT : CONVENTIONAL LAGOON SEASONAL WATERCOURSE : LAKE HURON

MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE HURON

IJC DESIGNATION : DIRECT DESIGN CAPACITY : 0.63 1000 m3

POPULATION SERVED: 780

1987	AVG D	AY	1	5 DA	Y BOD		l	SUSPEN	DED SOLI	DS	j 1	TOTAL PHO	SPHORUS
	FLOW		INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m	3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	   0.	330	   101.0	ND			   56.0	ND			3.8	ND	
FEB	0.	320	156.0	ND			109.0	ND			5.2	ND	
MAR	0.	520	122.0	ND			510.0	ND			2.1	ND	
APR	0.	490	114.0	ND			140.0	ND			0.9	ND	
YAM	0.	330	240.0	11.7			230.0	104.3			7.1	2.8	
JUN	0.	330	92.0	3.5			75.0	10.6			3.2	2.5	
JUL	0.	380	90.0	ND			60.0	ND			5.3	ND	
AUG	0.	370	132.0	ND			108.0	ND			6.5	ND	
SEP	0.	350	ND	ND			ND	ND			ND	ND	
OCT	0.	390	ND	ND			ND ND	ND			5.5	ND	
VOV	0.	420	66.0	3.3			85.0	6.6			3.1	1.3	
DEC	0. 	560	ND	ND			ND	ND			ND I	ND	
AVERA	GE: 0.	399	1 1 124.0	6.2		2.134	1 153.0	40.5 *		13.563	1 4.3	2.2	0.774
OBSER	VATIONS:		9	3			9	3		.5.505	10	3	0.77
	SAMPLES		13	18			13	18			14	7	

COMPLIANCE : CRITERIA : NOTE :

> BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS BOD - YES

BOD - 30 mg/l SS - 40 mg/l TD - NONE TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - NO \* - EXCEEDS EFFLUENT CRITERIA

TP - YES TP - NONE ND - NO DATA

ANTICIPATED

REMEDIAL MEASURES START DATE END DATE COMPLIANCE

EXISTING EQUIPMENT/OPERATION IS BEING MODIFIED 87/01/01 87/12/31

REMEDIAL MEASURES BEING EVALUATED 86/01/01

MUNICIPALITY : HAILEYBURY REGION : NORTHEAST DISTRICT PLANT : LAKE TEMISKAMING NEW WPCP : NORTH BAY OPERATING AUTHORITY : MINISTRY

WORKS NUMBER : 110002158

TREATMENT : EXTENDED AERATION WATERCOURSE : LAKE TEMISKAMING

PHOSPHORUS REMOVAL - CONTINUOUS MAJOR BASIN : GREAT LAKES MINOR BASIN : OTTAWA RIVER

DESIGN CAPACITY : 1.60 1000 m3 IJC DESIGNATION : NON IJC

POPULATION SERVED : 0

1987	AVG DAY	1	5 DA	Y BOD		1	SUSPEN	DED SOLI	DS	[	TOTAL PHO	SPHORUS
	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	   0.852	1 138.0	9.2		7.838	   152.0	6.9		5.879	6.5	1.3 *	1.125
FEB	0.586	141.0	9.7		5.684	154.0	17.3		10.138	8.9	1.0	0.586
MAR	0.975	130.0	5.5		5.362	117.0	20.8		20.280	6.8	0.7	0.673
APR	1.150	63.0	3.4		3.910	80.0	5.6		6.440	4.6	0.5	0.621
MAY	1.579	75.0	3.6		5.684	92.0	12.5		19.738	5.5	0.5	0.758
JUN	1.660	90.0	4.1		6.806	79.0	9.2		15.272	7.2	0.7	1.212
JUL	1.447	87.0	7.8		11.287	89.0	11.7		16.930	5.7	0.5	0.68
AUG	1.260	70.0	8.0		10.080	84.0	6.6		8.316	6.8	1.2 *	1.51
SEP	1.162	82.0	3.7		4.299	73.0	8.7		10.109	6.7	0.3	0.38
OCT	1.207	68.0	4.7		5.673	70.0	5.6		6.759	2.0	0.3	0.36
NOV	0.875	120.0	8.2		7.175	82.0	12.8		11.200	3.3	0.5	0.39
DEC	1.398 	77.0 	2.9		4.054	72.0 	10.1		14.120	4.4	0.4	0.55
AVERA	GE: 1.179	95.0	5.9		6.488	95.0	10.7	1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1	12.098	   5.7	0.7	0.73
OBSER	VATIONS:12	12	12			1 12	12			12	12	in in the second
EXCEE	DANCES	1				İ					2	
NO OF	SAMPLES	23	24			60	61			28	34	

COMPLIANCE : CRITERIA : NOTE :

> BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS BOD - YES BOD - 25 mg/l TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - YES SS - 25 mg/l \* - EXCEEDS EFFLUENT CRITERIA

TP - 1.0 mg/l TP - NO ND - NO DATA

ANTICIPATED REMEDIAL MEASURES START DATE END DATE **COMPLIANCE** 

MUNICIPALITY : HAILEYBURY REGION : NORTHEAST
PLANT : LAKE TEMISKAMING OLD WPCP DISTRICT : NORTH BAY

WORKS NUMBER: 110000310 OPERATING AUTHORITY: MINISTRY

TREATMENT : EXTENDED AERATION ( P REMOVAL JULY 87 ) WATERCOURSE : LAKE TIMISKAMING

MAJOR BASIN : GREAT LAKES
MINOR BASIN : OTTAWA RIVER

DESIGN CAPACITY: 1.59 1000 m3 IJC DESIGNATION: NON IJC

POPULATION SERVED : 3240

1987	AVG DAY	1	5 DA	Y BOD		l	SUSPEN	DED SOLI	DS	1	TOTAL PHO	SPHORUS
	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d
JAN	   0.419	138.0	7.5		3.143	   154.0	4.6		1.927	   6.5	1.8	0.754
FEB	0.634	1 141.0	9.7		6.150	3	10.6		6.720	8.9	0.1	0.063
MAR	1.700	130.0	14.6		24.820	118.0	3.7		6.290	6.8	1.0	1.700
APR	1.874	63.0	2.0		3.748	The same of the same of	3.2		5.997	4.6	0.6	1.12
MAY	0.293	67.0	14.7		4.307	109.0	10.5		3.076	5.8	1.0	0.29
JUN	ND	ND	ND		ND	ND	ND		ND	ND	ND	ND
JUL	ND ND	ND	ND		ND	ND	ND		ND	ND	ND	ND
AUG	ND	ND	ND		ND	ND ND	ND		ND	ND	ND	ND
SEP	0.324	82.0	5.0		1.620	68.0	9.3		3.013	6.7	0.4	0.13
OCT	0.855	84.0	6.8		5.814	81.0	12.2		10.431	2.5	0.9	0.76
NOV	1.334	120.0	4.4		5.870	72.0	13.4		17.876	0.7	0.5	0.66
DEC	1.460 	77.0 	4.2		6.132	82.0 	13.0		18.980	4.4	0.6	0.87
AVERA	GE: 0.988	1 100.0	7.7		6.845	102.0	8.9		8.257	5.2	0.8	0.70
	VATIONS: 9 DANCES	9	9			9	9			9 	9	
NO OF	SAMPLES	1 12	16			38	41			1 15	24	

COMPLIANCE : CRITERIA : NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

BOD - YES BOD - 25 mg/l TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - YES SS - 25 mg/l \* - EXCEEDS EFFLUENT CRITERIA

TP - YES TP - NONE ND - NO DATA

ANTICIPATED

<u>REMEDIAL MEASURES</u> <u>START DATE END DATE COMPLIANCE</u>

CONSTRUCTION COMPLETED 87/07/01 87/08/31

DISTRICT MUNICIPALITY : HAILEYBURY : NORTHEAST PLANT : NORTH COBALT LAGOON : NORTH BAY

WORKS NUMBER : 110001382 OPERATING AUTHORITY : MINISTRY

TREATMENT : CONVENTIONAL LAGOON SEASONAL : FARR CREEK WATERCOURSE ( P REMOVAL JULY 87 ) MAJOR BASIN : GREAT LAKES MINOR BASIN : OTTAWA RIVER

IJC DESIGNATION : NON IJC DESIGN CAPACITY : 0.34 1000 m3

POPULATION SERVED: 800

1987	AVG DAY	ĺ	5 DA	Y BOD		1	SUSPEN	DED SOLI	DS	1 1	TOTAL PHO	SPHORUS
	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d
JAN	0.398	217.0	ND			1 148.0	ND			8.1	ND	
FEB	0.390	148.0	ND			123.0	ND			7.7	ND	
MAR	0.710	334.0	6.0			186.0	9.0			12.3	2.6	
APR	0.891	99.0	12.0			69.0	25.0			3.3	2.8	
MAY	0.756	117.0	6.0			140.0	ND			6.2	ND	
JUN	0.511	110.0	ND			92.0	ND			5.7	ND	
JUL	0.565	158.0	ND			37.0	ND			6.8	ND	
AUG	0.499	170.0	ND			170.0	ND			8.7	ND	
SEP	0.395	131.0	12.0			82.0	30.0			6.5	1.2	
OCT	0.620	80.0	14.9			91.0	26.6			5.2	2.9	
NOV	0.611	139.0	25.0			120.0	25.0			7.1	ND	
DEC	0.776 	49.0 	ND			50.0 	ND			3.0	ND	
AVERA	GE: 0.594	146.0	12.7		8.123	109.0	23.1		14.456	6.7	2.4	1.65
	VATIONS:12 DANCES	12 	6			12 	5			] 12 	4	
NO OF	SAMPLES	25	12			25	9			25	8	

COMPLIANCE : CRITERIA : NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

BOD - YES BOD - 30 mg/l TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - YES SS - 40 mg/l \* - EXCEEDS EFFLUENT CRITERIA

TP - YES TP - NONE ND - NO DATA

ANTICIPATED

REMEDIAL MEASURES START DATE END DATE COMPLIANCE

MUNICIPALITY : HALLEBOURG

REGION : NORTHEAST DISTRICT : TIMBERS

PLANT : HALLEBOURG LAGOON (IN OPERATION 1987)

WORKS NUMBER : 120002031

TREATMENT : CONVENTIONAL LAGOON SEASONAL

WATERCOURSE

OPERATING AUTHORITY : MUNICIPAL : LAKE MCILWROTH

PHOSPHORUS REMOVAL - BATCH

MAJOR BASIN : ARCTIC WATERSHED
MINOR BASIN : JAMES BAY

SERIES OPERATION

DESIGN CAPACITY : 0.00 1000 m3

IJC DESIGNATION : NON IJC

POPULATION SERVED : 261

FOFUL	_		. 20				1						
1987	A	VG DAY	1	5 DA	Y BOD		1	SUSPEN	IDED SOLI	DS		TOTAL PHO	SPHORUS
	1	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(10	00 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	İ	ND	I ND	ND			I ND	ND			ND	ND	
FEB	1	ND	ND	ND			ND	ND			ND	ND	
MAR	1	ND	ND	ND			ND	ND			ND	ND	
APR	1	ND	ND	ND			ND	ND			ND	ND	
MAY	1	ND	ND	ND			ND	ND			ND	ND	
JUN	1	ND	ND	ND			ND	ND			ND	ND	
JUL	I	ND	ND	ND			ND	ND			ND	ND	
AUG	1	ND	ND	ND			ND	ND			ND	ND	
SEP	1	ND	ND	ND			ND	ND			ND	ND	
OCT	I	ND	ND	ND			ND	ND			ND	ND	
NOV	I	ND	ND	ND			ND	ND			ND	ND	
DEC	l	ND	ND	ND			ND	ND			ND	ND	
	<u> </u>		1				1		- L L L L L L L L		l		
AVERA	GE:	0.000	l I 0.0	0.0		0.000	   0.0	0.0	15-	0.000	   0.0	0.0	0.000
OBSERV			1 0	0			1 0	0		0.000	1 0.0	0.0	0.000
EXCEE			i	ž.			1				"		
NO OF	SAME	PLES	I 0	0			i o	0			io	0	
			i				ì	(3)			i	n. <del>≪</del> n	

COMPLIANCE :

CRITERIA :

BOD - INSUFFICIENT DATA BOD - 30 mg/l
SS - INSUFFICIENT DATA SS - 40 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

\* - EXCEEDS EFFLUENT CRITERIA

ND - NO DATA

ANTICIPATED

REMEDIAL MEASURES

START DATE END DATE

COMPLIANCE

MUNICIPALITY : HEARST

PLANT : CECILE TRAILER PARK LAGOON IN OP 87

DISTRICT : TIMMINS

WORKS NUMBER : 120001997

OPERATING AUTHORITY : MUNICIPAL

TREATMENT : CONVENTIONAL LAGOON SEASONAL

WATERCOURSE : MATTAWISHKWIA RIVER MAJOR BASIN : ARCTIC WATERSHED

: NORTHEAST

MINOR BASIN

REGION

: JAMES BAY

DESIGN CAPACITY : 0.07 1000 m3

IJC DESIGNATION :

POPULATION SERVED : 140

1987	A	G DAY	1	5 DA	Y BOD		1	SUSPEN	DED SOLI	DS	1 1	TOTAL PHO	SPHORUS
		LOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(100	00 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d
JAN	i	ND	ND	ND			ND	ND			ND	ND	
FEB	1	ND	ND	ND			ND	ND			ND	ND	
MAR	l	ND	ND	ND			ND	ND			ND	ND	
APR	1	ND	ND	ND			ND	ND			ND	ND	
MAY	1	ND	ND	ND			ND	ND			ND	ND	
JUN	1	ND	ND	ND			ND	ND			ND	ND	
JUL	1	ND	ND	ND			ND	ND			ND	ND	
AUG	1	ND	ND	ND			ND	ND			ND	ND	
SEP	1	ND	ND	ND			ND	ND			ND	ND	
OCT	1	ND	ND	ND			ND	ND			ND	ND	
NOV	1	ND	ND	ND			ND	ND			ND	ND	
DEC	1	ND	175.0	ND			120.0	ND			5.9	ND	
	1		 				l						
AVERA	GE:	0.000	175.0	0.0		0.000	120.0	0.0		0.000	5.9	0.0	0.00
OBSER'		ONS: 0	1 1	0			1 1	0			1 1	0	
NO OF			1 1	0			1 1	0			1 1	0	
NO 01	SAH	LLS	1 .	Ü			1 1	U			1 1	U	

COMPLIANCE :

CRITERIA :

NOTE :

BOD - INSUFFICIENT DATA BOD - 30 mg/L

SS - INSUFFICIENT DATA SS - 40 mg/l

TP - INSUFFICIENT DATA TP - NONE

TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS. \* - EXCEEDS EFFLUENT CRITERIA

ND - NO DATA

ANTICIPATED

REMEDIAL MEASURES

START DATE END DATE

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

COMPLIANCE

MUNICIPALITY : HEARST

PLANT : HEARST LAGOON

WORKS NUMBER: 110000338

TREATMENT : AERATED CELL PLUS LAGOON

CONTINUOUS DISCHARGE

RIVER FLOW DEPENDENT

DESIGN CAPACITY : 6.81 1000 m3

POPULATION SERVED : 5270

: NORTHEAST

DISTRICT

: TIMMINS

OPERATING AUTHORITY : MINISTRY

WATERCOURSE

: MATTAWISHKWIA RIVER : ARCTIC WATERSHED

MAJOR BASIN

MINOR BASIN : JAMES BAY

IJC DESIGNATION

: NON IJC

_		r				·						
A\	/G DAY	<u> </u>	5 DA	Y BOD		i	SUSPEN	IDED SOLI	DS	1	TOTAL PHO	SPHORUS
F	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
(100	00 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
	2.030	1 141.0	ND			1 170.0	ND			   7.2	ND	
1	1.929	151.0	ND			243.0	ND			7.4	ND	
1	2.737	137.0	ND			268.0	ND			4.5	ND	
1	3.549	65.0	ND			200.0	ND			5.7	ND	
1	3.402	121.0	14.4			190.0	31.0			4.4	2.0	
1	3.636	108.0	ND			215.0	ND			6.1	ND	
l	3.928	38.0	ND			55.0	ND			3.0	ND	
1	4.192	95.0	ND			280.0	ND			6.1	ND	
1	3.604	98.0	19.0			360.0	15.0			5.2	1.9	
1	2.546	67.0	5.1			152.0	5.5			4.4	1.5	
l	2.584	65.0	ND			80.0	ND			3.7	ND	
1	2.459	81.0 	ND			137.0 	ND			1 4.2	ND	
GE:	3.050	97.0	12.8		43.483	196.0	17.2		57.842	1 5.2	1.8	5.824
		1 12	3			12 	3			12	3	3.02
SAMP	PLES	22	10			I 21	10			1 21	15	
	(100	2.030   1.929   2.737   3.549   3.402   3.636   3.928   4.192   3.604   2.546   2.546	FLOW   INF  (1000 m3/d)   (mg/L)   2.030   141.0   1.929   151.0   2.737   137.0   3.549   65.0   3.402   121.0   3.636   108.0   3.928   38.0   4.192   95.0   3.604   98.0   2.546   67.0   2.546   67.0   2.545   81.0   GE: 3.050   97.0   VATIONS:12   12	FLOW   INF	FLOW   INF EFF   (1000 m3/d)   (mg/L) (mg/L) (%REM)	FLOW   INF	FLOW   INF	FLOW   INF	FLOW   INF	FLOW	FLOW	FLOM

COMPLIANCE :

CRITERIA :

NOTE :

BOD - YES

BOD - 30 mg/l

TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - YES

SS - 40 mg/l

\* - EXCEEDS EFFLUENT CRITERIA

TP - YES

TP - NONE

ND - NO DATA

ANTICIPATED

REMEDIAL MEASURES

START DATE END DATE

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

COMPLIANCE

MUNICIPALITY : HORNEPAYNE

DISTRICT PLANT : HORNEPAYNE WPCP : SAULT STE. MARIE

WORKS NUMBER : 110001952 OPERATING AUTHORITY : MINISTRY

TREATMENT : EXTENDED AERATION WATERCOURSE : JACKFISH RIVER

MAJOR BASIN : ARCTIC WATERSHED MINOR BASIN : JAMES BAY

: NORTHEAST

DESIGN CAPACITY : 1.36 1000 m3 IJC DESIGNATION : NON IJC

POPULATION SERVED : 1675

1987	AV	G DAY	1	5 DA	Y BOD		1	SUSPEN	DED SOLI	DS	1 1	OTAL PHO	SPHORUS
	F	LOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(100	0 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d
JAN	1	0.635	88.0	2.1		1.334	   124.0	8.0		5.080	4.1	2.8	1.77
FEB	l	0.507	49.0	6.2		3.143	100.0	21.0		10.647	3.6	3.2	1.59
MAR	l	0.769	63.0	2.3		1.769	86.0	15.5		11.920	3.7	2.5	1.88
APR	1	1.026	66.0	4.0		4.104	97.0	26.3		26.984	2.8	2.2	2.25
YAN	1	0.801	67.0	2.5		2.002	82.0	21.4		17.141	3.6	2.4	1.92
JUN	1	0.685	93.0	3.4		2.329	172.0	19.6		13.426	5.5	2.9	1.98
IUL	1	1.057	38.0	1.4		1.480	87.0	12.0		12.684	2.9	2.1	2.2
NUG	I	0.910	51.0	0.5		0.455	129.0	15.2		13.832	3.7	2.5	2.27
SEP	1	0.832	82.0	1.5		1.248	172.0	14.7		12.230	3.6	1.6	1.33
OCT	l	0.865	45.0	1.4		1.211	69.0	7.7		6.660	2.7	2.2	1.86
IOV	1	0.931	57.0	1.5		1.397	96.0	18.0		16.758	2.8	1.3	1.2
EC	1	0.819	70.0 	2.0		1.638	80.0 	12.4		10.156	4.4	2.6	2.0
VERA	GE:	0.820	64.0	2.4		1.843	108.0	16.0		13.127	3.6	2.3	1.86
	VAT I O	NS:12 S	12 	12			12 	12			12 	12	
10 OF	SAMP	LES	24	23			63	58			1 24	22	

COMPLIANCE : CRITERIA : NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

BOD - YES BOD - 25 mg/l TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - 25 mg/l SS - YES \* - EXCEEDS EFFLUENT CRITERIA

TP - YES TP - NONE ND - NO DATA

ANTICIPATED REMEDIAL MEASURES START DATE END DATE **COMPLIANCE** 

MUNICIPALITY : IROQUOIS FALLS REGION : NORTHEAST
PLANT : IROQUOIS FALLS WPCP DISTRICT : TIMMINS

WORKS NUMBER : 110002121 OPERATING AUTHORITY : MINISTRY

MAJOR BASIN : ARCTIC WATERSHED

: ABITIBI RIVER

WATERCOURSE

DESIGN CAPACITY: 4.09 1000 m3 HINOR BASIN : JAMES BAY

POPULATION SERVED : 5575

TREATMENT : CONTACT STABILIZATION

	I		Γ				T				ľ		
1987	AV	G DAY	1	5 DA	Y BOD		1	SUSPEN	DED SOLI	DS	1 .	TOTAL PHO	SPHORUS
l	F	LOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
l	(100	0 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	1	2.170	123.0	14.6		31.682	   117.0	8.7		18.879	104	2.9	4 700
	!						ALTERNATION CO.				Maria and		6.380
FEB	ļ	2.180	51.0	2.2		4.796		9.7		21.146	•	3.2	6.932
MAR	ı	2.950	96.0	21.4		63.130	40.0	9.9		29.205	4.6	2.1	6.047
APR	1	3.180	78.0	20.0		63.600	53.0	4.7		14.946	4.3	1.2	3.848
MAY	1	3.150	56.0	29.0		91.350	45.0	5.9		18.585	0.8	0.7	2.142
JUN	1	3.120	33.0	16.0		49.920	34.0	6.3		19.656	3.2	7.2	22.464
JUL	1	3.710	ND	ND		ND	34.0	6.6		24.486	ND	ND	ND
AUG	1	3.550	11.0	1.8		6.390	18.0	3.2		11.360	1.5	2.4	8.520
SEP	1	3.120	88.0	12.0		37.440	78.0	3.8		11.856	5.5	2.5	7.800
OCT	1	4.090	46.0	37.0		151.330	72.0	11.7		47.853	3.2	2.4	9.816
NOV	1	2.820	47.0	24.0		67.680	64.0	10.5		29.610	7.3	1.6	4.568
DEC	ı	2.770	29.0	34.5		95.565	32.0	11.1		30.747	1.8	3.7	10.249
	1						<u> </u>				<u> </u>		
   AVERA	GE:	3.068	60.0	19.3		60.262	54.0	7.7		23.194	4.0	2.7	8.070
OBSER	VATIO	NS:12	11	11			12	12			11	11	
EXCEE	DANCE	S	1				l				l		
NO OF	SAMP	LES	20	21			36	41			18	21	
			1				1				I		

COMPLIANCE : CRITERIA : NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

BOD - YES BOD - 25 mg/l TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - YES SS - 25 mg/l \* - EXCEEDS EFFLUENT CRITERIA

TP - YES TP - NONE ND - NO DATA

ANTICIPATED

REMEDIAL MEASURES START DATE END DATE COMPLIANCE

MUNICIPALITY : IROQUOIS FALLS REGION : NORTHEAST PLANT : PORQUIS JUNCTION LAGOON DISTRICT : TIMMINS OPERATING AUTHORITY : MUNICIPAL

WORKS NUMBER : 120003290

TREATMENT : CONVENTIONAL LAGOON SEASONAL WATERCOURSE : STATION CR.TO MEADOW CR.

SINGLE CELL

MAJOR BASIN : ARCTIC WATERSHED

: NON IJC

MINOR BASIN : JAMES BAY

IJC DESIGNATION

DESIGN CAPACITY : 0.04 1000 m3

POPULATION SERVED: 176

1987	A	VG DAY	1	5 DA	Y BOD		I	SUSPEN	DED SOLI	DS	1 1	TOTAL PHO	SPHORUS
	1	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(100	00 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	! !	0.068	107.0	ND			   130.0	ND			6.5	ND	
FEB	l	0.070	98.0	ND			99.0	ND			5.5	ND	
MAR	1	0.073	117.0	ND			76.0	ND			5.0	ND	
APR	1	0.090	95.0	ND			61.0	ND			5.1	ND	
MAY	1	0.074	153.0	23.8			127.0	114.5			3.2	1.3	
JUN	1	0.069	54.0	ND			80.0	ND			4.8	ND	
JUL	1	0.090	36.0	ND			47.0	ND			4.2	ND	
AUG	1	0.086	34.0	ND			60.0	ND			3.1	ND	
SEP	1	0.092	270.0	ND			290.0	ND			4.5	ND	
OCT	1	0.111	17.0	47.3			20.0	882.0			1.5	2.2	
NOV	1	0.100	ND	ND			110.0	ND			6.2	ND	
DEC	1	0.074	78.0 	ND			100.0 	ND			6.2 	ND	
AVERA	GE:	0.083	   96.0	35.6 *		3.506	1 100.0	498.3 *		53.188	1 4.7	1.8	0.177
OBSER EXCEE		ONS:12 ES	j 11 I	2			12 	2			12 	2	
NO OF	SAM	PLES	21	15			23	15			23	15	

COMPLIANCE : CRITERIA : NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

BOD - NO BOD - 30 mg/l TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - NO SS - 40 mg/l \* - EXCEEDS EFFLUENT CRITERIA

TP - YES TP - NONE ND - NO DATA

ANTICIPATED START DATE END DATE REMEDIAL MEASURES COMPLIANCE

MINOR DEVIATIONS - NO REMEDIAL MEASURES ARE REQUIRED 88/12/31 MARGINAL FAILURE-CONTINUE TO MAINTAIN AND MONITOR LEVEL OF FAILED PARAMETER 88/12/31

MUNICIPALITY : JOGUES

PLANT : JOGUES LAGOON (IN OPERATION 1987)

WORKS NUMBER : 120002022

TREATMENT : CONVENTIONAL LAGOON SEASONAL

PHOSPHORUS REMOVAL - BATCH

SERIES OPERATION

DESIGN CAPACITY : 0.00 1000 m3

MAJOR BASIN

OPERATING AUTHORITY : MUNICIPAL

: NORTHEAST

: TIMMINS

WATERCOURSE

DISTRICT

: PRUNE CREEK : ARCTIC WATERSHED

MINOR BASIN

: JAMES BAY

REGION

IJC DESIGNATION : NON IJC

POPUL	ATION	SERVED	: 21	5			<b>,</b>	·				<del></del>	H
1987	A	/G DAY		5 DA	Y BOD		i	SUSPEN	DED SOLI	DS	i	TOTAL PHO	SPHORUS
	1 1	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(100	00 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	İ	ND	ND	ND			ND	ND			ND	ND	
FEB	1	ND	ND	ND			ND	ND			ND	ND	
MAR	l	ND	ND	ND			ND	ND			ND	ND	
APR	l	ND	ND	ND			ND	ND			ND	ND	
MAY	1	ND	ND	ND			ND	ND			ND	ND	
JUN	1	ND	ND	ND			ND	ND			ND	ND	
JUL	1	ND	ND ND	ND			ND	ND			ND	ND	
AUG	l	ND	ND	ND			ND	ND			ND	ND	
SEP	1	ND	ND ND	ND			ND	ND			ND	ND	
OCT	1	ND	ND ND	ND			ND	ND			ND	ND	
NOV	l	ND	ND ND	ND			ND ND	ND			ND	ND	
DEC	l I	ND	ND	ND			ND	ND			ND	ND	
	<u> </u>	198 (1988)	<u> </u>				<del> </del>				<u> </u>		
AVERA		0.000	0.0	0.0		0.000	0.0	0.0		0.000	0.0	0.0	0.000
OBSER			0 	0			0	0			0 	0	
NO OF	SAMP	PLES	j 0	0			0	0			0	0	
			l				1				1		

COMPLIANCE :

CRITERIA :

NOTE :

BOD - INSUFFICIENT DATA BOD - 30 mg/l

TP - INSUFFICIENT DATA TP - 1.0 mg/l

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

\* - EXCEEDS EFFLUENT CRITERIA

ND - NO DATA

ANTICIPATED

REMEDIAL MEASURES

START DATE END DATE

COMPLIANCE

MUNICIPALITY : KAPUSKASING REGION : NORTHEAST PLANT : BRUNETVILLE LAGOON DISTRICT : TIMMINS

WORKS NUMBER : 120003012

TREATMENT : CONVENTIONAL LAGOON CONTINUOUS WATERCOURSE : (KAPUSKASING WPCP)

PHOSPHORUS REMOVAL - BATCH MAJOR BASIN : ARCTIC WATERSHED

MINOR BASIN : JAMES BAY

OPERATING AUTHORITY : MUNICIPAL

DESIGN CAPACITY : 2.06 1000 m3 IJC DESIGNATION : NON IJC

POPULATION SERVED : 2100

1987	AVG DAY	1	5 DA	Y BOD		I	SUSPEN	DED SOLI	DS	1 1	TOTAL PHO	SPHORUS
	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d
JAN	   0.471	240.0	23.7		11.163	   148.0	16.9		7.960	6.8	4.2 *	1.98
FEB	0.446	ND	63.5		28.321	ND ND	80.6		35.948	14.5	4.6 *	2.04
MAR	0.714	ND	87.0		62.118	ND	43.5		31.059	16.1	5.3 *	3.78
APR	0.836	414.0	14.3		11.955	ND	17.9		14.964	4.1	3.6 *	2.99
MAY	0.639	162.0	20.5		13.100	133.0	39.7		25.368	7.3	1.9 *	1.19
JUN	0.611	325.0	3.9		2.383	ND	15.8		9.654	6.9	1.6 *	0.99
JUL	ND	158.0	6.0		ND	136.0	42.2		ND	6.7	1.0	ND
AUG	ND	345.0	12.2		ND	230.0	36.0		ND	7.4	2.1 *	ND
SEP	0.758	193.0	10.6		8.035	248.0	36.6		27.743	6.5	1.9 *	1.41
OCT	0.904	108.0	9.2		8.317	107.0	14.9		13.470	4.4	3.0 *	2.73
NOV	0.817	129.0	7.5		6.127	73.0	25.4		20.752	7.2	3.4 *	2.81
DEC	ND	ND 	ND		ND	ND	ND		ND	ND	ND	ND
AVERA	GE: 0.688	230.0	23.5		16.835	154.0	33.6		20.769	8.0	3.0 *	2.21
OBSER	VATIONS: 9	9	11			7	11			111	11	
EXCEE	DANCES	l				ı				i	10	
NO OF	SAMPLES	9	21			7	19			1 12	22	

COMPLIANCE: CRITERIA: NOTE:

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

BOD - YES BOD - 30 mg/l TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - YES SS - 40 mg/l \* - EXCEEDS EFFLUENT CRITERIA

TP - NO TP - 1.0 mg/l ND - NO DATA

 REMEDIAL MEASURES
 START DATE
 END DATE
 ANTICIPATED COMPLIANCE

 ENGINEERING STUDY PHASE
 86/01/01
 88/12/31

 CONNECTION TO OTHER PLANT
 88/05/01
 88/11/30
 88/11/30

MUNICIPALITY : KAPUSKASING REGION : NORTHEAST DISTRICT : TIMMINS PLANT : KAPUSKASING WPCP WORKS NUMBER : 110003004

OPERATING AUTHORITY : MINISTRY TREATMENT : EXTENDED AERATION

WATERCOURSE : KAPUSKASING RIVER : ARCTIC WATERSHED

MAJOR BASIN : ARCTIC WAT MINOR BASIN : JAMES BAY DESIGN CAPACITY : 9.09 1000 m3 IJC DESIGNATION : NON IJC

POPULATION SERVED : 12000

1987	A	VG DAY	1	5 DA	Y BOD		Ì	SUSPEN	DED SOLI	DS	į į	OTAL PHO	SPHORUS
		FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(10	00 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d
JAN	1	4.400	240.0	5.0		22.000	   160.0	8.0		35.200	   3.1	1.4	6.16
FEB	1	4.300	108.0	3.4		14.620	185.0	7.6		32.680		3.4	14.62
MAR	1	5.400	143.0	5.6		30.240	182.0	7.7		41.580		1.8	9.72
APR	I	7.161	84.0	2.4		17.186	118.0	4.8		34.373	Brance and	1.8	12.89
MAY	1	5.860	197.0	1.6		9.376	142.0	4.6		26.956	9.6	1.9	11.13
JUN	1	5.641	62.0	6.8		38.359	112.0	6.2		34.974	3.8	2.4	13.31
JUL	1	5.177	113.0	1.0		5.177	99.0	6.3		32.615	5.0	1.7	8.80
AUG	l	5.953	57.0	0.9		5.358	107.0	6.8		40.480	3.3	1.9	11.01
SEP	1	4.963	66.0	1.9		9.430	151.0	5.2		25.808	3.6	3.0	14.88
OCT	1	6.855	74.0	0.9		6.170	127.0	2.6		17.823	4.5	1.8	12.33
NOV	1	6.323	72.0	0.5		3.162	133.0	3.2		20.234		1.4	8.85
DEC	 	5.171	97.0 	3.6		18.616	146.0 	3.8		19.650	3.2 	2.2	11.37
AVERA	GE:	5.600	109.0	2.8		14.975	138.0	5.6		30.198	1 4.5	2.1	11.25
OBSER\ EXCEE		ONS:12	12 	12			12	12			12	12	11.23
IO OF	SAME	PLES	23	24			101	90			20	21	

COMPLIANCE : CRITERIA : NOTE :

> BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS BOD - YES

BOD - 25 mg/l SS - 25 mg/l TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - YES \* - EXCEEDS EFFLUENT CRITERIA

TP - YES TP - NONE ND - NO DATA

ANTICIPATED REMEDIAL MEASURES START DATE END DATE COMPLIANCE

MUNICIPALITY : KIRKLAND LAKE

PLANT : KIRKLAND LAKE WPCP

WORKS NUMBER : 120000015

TREATMENT : CONTACT STABILIZATION

PHOSPHORUS REMOVAL - CONTINUOUS

REGION

: NORTHEAST

DISTRICT : TIMMINS

OPERATING AUTHORITY : MINISTRY

WATERCOURSE

: MURDOCK CREEK

MAJOR BASIN

IJC DESIGNATION

: GREAT LAKES

MINOR BASIN

: OTTAWA RIVER : NON IJC

DESIGN CAPACITY : 13.63 1000 m3

POPULATION SERVED: 12500

1987	AVG DAY	1	5 DA	Y BOD		1	SUSPEN	DED SOLI	DS	1	TOTAL PHO	SPHORUS
	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	12.200	29.0	10.1		123.220	48.0	12.8		156.160	2.5	0.8	9.760
FEB	12.800	28.0	4.1		52.480	59.0	10.6		135.680	2.8	0.6	7.680
MAR	14.800	44.0	3.2		47.360	46.0	9.9		146.520	3.0	0.6	8.880
APR	13.100	32.0	4.2		55.020	61.0	9.3		121.830	2.9	0.8	10.480
MAY	9.219	38.0	5.0		46.095	74.0	8.5		78.361	3.4	0.5	4.609
JUN	9.990	ND	ND		ND	87.0	9.7		96.903	1.4	0.2	1.598
JUL	9.639	42.0	7.0		67.473	89.0	10.0		96.390	1.8	0.4	4.145
AUG	7.139	52.0	3.8		27.128	97.0	7.6		54.256	3.4	1.1 *	7.639
SEP	7.023	28.0	11.0		77.253	113.0	10.1		70.932	2.1	0.6	4.003
OCT	9.042	56.0	4.0		36.168	92.0	21.8		197.116	2.9	0.8	6.962
NOV	7.487	57.0	13.0		97.331	82.0	6.3		47.168	2.3	0.7	5.316
DEC	10.348 	52.0 	6.2		64.158	56.0 	9.0		93.132	2.5	0.7	6.726
AVERA	GE: 10.232	42.0	6.5		63.062	75.0	10.5		107.871	2.6	0.6	6.483
OBSER	VATIONS: 12	11	11			1 12	12			12	12	
EXCEE	DANCES	1				1				Î	1	
NO OF	SAMPLES	22	20			103	112			94	85	

COMPLIANCE :

CRITERIA :

NOTE :

BOD - YES BOD - 25 mg/l

SS - YES SS - 25 mg/l TP - NO TP - 1.0 mg/l

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

\* - EXCEEDS EFFLUENT CRITERIA

ND - NO DATA

ANTICIPATED

REMEDIAL MEASURES

START DATE END DATE

**COMPLIANCE** 

INPLANT SAMPLING PROGRAM IS BEING MODIFIED

MUNICIPALITY : KIRKLAND LAKE

PLANT : SWASTIKA WPCP

WORKS NUMBER: 120001942

TREATMENT : CONVENTIONAL ACTIVATED SLUDGE

REGION

: NORTHEAST

DISTRICT

: TIMMINS

WATERCOURSE

OPERATING AUTHORITY : MUNICIPAL

MAJOR BASIN

: BLANCHE RIVER

: GREAT LAKES

MINOR BASIN

: OTTAWA RIVER

C

DESIGN CAPACITY : 0.39 1000 m3

POPULATION SERVED: 700

IJC DESIGNATION :	NON	IJ
-------------------	-----	----

1987	AVG DAY	1	5 DA	Y BOD			SUSPEN	DED SOLI	DS	1	TOTAL PHO	SPHORUS
	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	l ND	35.0	17.1		ND	31.0	15.4		ND	1 1.6	1.5	ND
FEB	ND	26.0	1.1		ND	33.0	10.8		ND	1.7	0.9	ND
MAR	ND	10.0	2.5		ND	21.0	16.6		ND	1.4	0.7	ND
APR	ND ND	14.0	8.7		ND	29.0	17.3		ND	1.1	1.2	ND
MAY	ND ND	63.0	2.8		ND	55.0	9.2		ND	4.7	0.7	ND
JUN	ND ND	60.0	1.4		ND	35.0	15.0		ND	3.1	0.4	ND
JUL	ND ND	46.0	3.2		ND	75.0	15.0		ND	4.9	2.4	ND
AUG	ND	80.0	1.2		ND	95.0	20.0		ND	6.3	1.1	ND
SEP	ND	104.0	2.0		ND	130.0	10.0		ND	5.5	1.9	ND
OCT	ND	130.0	1.6		ND	500.0	10.0		ND	5.5	1.7	ND
NOV	ND ND	78.0	2.0		ND	85.0	20.0		ND	4.3	1.1	ND
DEC	ND 	58.0 	ND		ND	50.0 	ND		ND	3.1 	ND	ND
AVERA	GE: 0.000	59.0	4.0		0.000	95.0	14.5		0.000	3.6	1.2	0.000
OBSER	VATIONS: 0	12	11			12	11			12	11	
EXCEE	DANCES	l				1				Ì		
NO OF	SAMPLES	1 12	11			12	11			1 12	11	

COMPLIANCE :

CRITERIA :

NOTE :

BOD - YES

BOD - 25 mg/l

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - YES

SS - 25 mg/l

\* - EXCEEDS EFFLUENT CRITERIA

TP - YES

TP - NONE

ND - NO DATA

ANTICIPATED

REMEDIAL MEASURES

START DATE END DATE

COMPLIANCE

MUNICIPALITY : LARDER LAKE

PLANT : LARDER LAKE WPCP

WORKS NUMBER : 120000033 TREATMENT : PRIMARY

REGION

: NORTHEAST

DISTRICT : TIMMINS

OPERATING AUTHORITY : MUNICIPAL

WATERCOURSE

: LARDER LAKE

MAJOR BASIN

: GREAT LAKES

MINOR BASIN

: OTTAWA RIVER

DESIGN CAPACITY :

0.59 1000 m3

POPULATION SERVED :

1100

IJC DESIGNATION : NON IJC

	1		T										
1987	   AV	G DAY	1	5 DA	Y BOD			SUSPEN	DED SOLI	DS	1	TOTAL PHO	SPHORUS
	F	LOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(100	0 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	1	ND	ND	ND	0	ND	l   ND	ND	0	ND	ND	ND	ND
FEB	Ì	ND	ND ND	ND	0	ND	ND	ND	0	ND	ND	ND	ND
MAR	1	ND	ND	ND	0	ND	ND	ND	0	ND	ND	ND	ND
APR	1	ND	ND	ND	0	ND	ND	ND	0	ND	ND	ND	ND
MAY	1	ND	ND ND	ND	0	ND	ND	ND	0	ND	ND	ND	ND
JUN	1	ND	ND	ND	0	ND	ND	ND	0	ND	ND	ND	ND
JUL	1	ND	ND	ND	0	ND	ND	ND	0	ND	ND	ND	ND
AUG	1	ND	ND	ND	0	ND	ND	ND	0	ND	ND	ND	ND
SEP	1	ND	400.0	32.0	92	ND	370.0	ND	100	ND	6.8	ND	ND
OCT	1	ND	35.0	ND	100	ND	120.0	ND	100	ND	1 2.4	ND	ND
NOV	i	ND	40.0	ND	100	ND	65.0	ND	100	ND	2.6	ND	ND
DEC	l I	ND	64.0 	ND	100	ND	150.0 	ND	100	ND	4.5	ND	ND
AVERA	GE:	0.000	1 135.0	32.0	98	0.000	176.0	0.0	100	0.000	4.1	0.0	0.000
OBSER		ONS: 0	1 4	1			4	0			4 	0	
NO DE	SAMP	PLES	1 4	2			4	0			i 4	0	

COMPLIANCE :

CRITERIA :

NOTE :

BOD - INSUFFICIENT DATA BOD - 30%

SS - INSUFFICIENT DATA SS - 50%

TP - INSUFFICIENT DATA TP - NONE

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

\* - EXCEEDS EFFLUENT CRITERIA

ND - NO DATA

ANTICIPATED

REMEDIAL MEASURES

START DATE END DATE

COMPLIANCE

FINAL DESIGN PHASE

88/12/01

MUNICIPALITY : LATCHFORD

PLANT : LATCHFORD WPCP

WORKS NUMBER : 110001774

TREATMENT : EXTENDED AERATION

REGION

: NORTHEAST

DISTRICT

: NORTH BAY

WATERCOURSE

: MONTREAL RIVER

MAJOR BASIN

: GREAT LAKES

MINOR BASIN

: OTTAWA RIVER

DESIGN CAPACITY : 0.34 1000 m3

POPULATION SERVED :

427

IJC DESIGNATION : NON IJC

OPERATING AUTHORITY : MINISTRY

	T -	-77	T				T						
1987	AV	G DAY	1	5 DA	Y BOD			SUSPEN	DED SOLI	DS		TOTAL PHO	SPHORUS
	F	LOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(100	0 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN		0.266	   71.0	6.8		1.809	   47.0	22.9		6.091	174	2.2	0.580
FEB	1	0.283	1 49.0	20.0		5.660	85.0	29.1		8.235	•	2.7	0.761
MAR	ì	0.317	96.0	22.7		7.196	• 1 ***********************************	44.8		14.202	1	3.0	0.948
APR	i	0.336	57.0	3.3		1.109	95.0	22.8		7.661	Name of the state	1.5	0.504
MAY	1	0.282	36.0	5.2		1.466	75.0	22.2		6.260	1.9	1.5	0.423
JUN	1	0.270	58.0	6.4		1.728	110.0	21.4		5.778	5.3	1.7	0.459
JUL	l	0.264	46.0	1.5		0.396	86.0	9.4		2.482	4.7	1.0	0.261
AUG	1	0.283	59.0	4.8		1.358	85.0	15.8		4.471	4.1	3.1	0.877
SEP	1	0.256	70.0	3.9		0.998	117.0	14.4		3.686	3.2	0.6	0.156
OCT	1	0.278	48.0	2.5		0.695	100.0	19.7		5.477	3.4	0.9	0.247
NOV	1	0.309	47.0	9.5		2.935	190.0	48.0		14.832	1.4	2.6	0.803
DEC	1	0.358	40.0	4.6		1.647	45.0	37.5		13.425	1.5	1.8	0.644
	<u> </u>		<u> </u>								<u> </u>		
AVERA	GE:	0.292	56.0	7.6		2.250	   100.0	25.7 *		7.717	l 1 3.5	1.9	0.555
OBSER EXCEE			12 	12			12 	12			12 	12	
NO OF	SAMP	LES	21	22			21	64			21	22	

COMPLIANCE :

CRITERIA :

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

\* - EXCEEDS EFFLUENT CRITERIA

TP - YES TP - NONE ND - NO DATA

BOD - 25 mg/l

SS - 25 mg/l

ANTICIPATED

REMEDIAL MEASURES START DATE END DATE COMPLIANCE

EXISTING EQUIPMENT/OPERATION IS BEING MODIFIED

REDUCE WINTER BLEEDING

BOD - YES

SS - NO

88/01/31 88/01/31

MUNICIPALITY : LITTLE CURRENT

REGION

: NORTHEAST

PLANT : LITTLE CURRENT LAGOON

DISTRICT

: SUDBURY

TREATMENT : CONVENTIONAL LAGOON SEASONAL

WORKS NUMBER : 110000392

OPERATING AUTHORITY : MINISTRY WATERCOURSE

: DITCH TO GEORGIAN BAY

MAJOR BASIN

: GREAT LAKES : LAKE HURON

DESIGN CAPACITY :

0.92 1000 m3

MINOR BASIN

POPULATION SERVED :

1500

IJC DESIGNATION

: DIRECT

• SV					SUSPENDE	D SOLIDS	1 1	TOTAL PHOS	SPHORUS
	LOW   INI 0 m3/d)  (mg/		renera de en	INF mg/L)	EFF (mg/L) (	LOAD %REM) (kg/d)	INF  (mg/L)	EFF (mg/L)	LOAD (kg/d)
JAN	0.780   1	ND ND	1	ND	ND		ND	ND	
FEB	0.680   1	ND ND	1	ND	ND		ND	ND	
MAR	0.940   10	0.0 ND	1	8.0	ND		1 3.9	ND	

	DOCUMENTS.		3	ALCO STATES	407010 A 1457.50	***************************************	THE TREE TO SEE	janosanasas K	44149-091170-005	TEGRIFULDIANICEO VENE		December 1996		
JAN		0.780	1	ND	ND			ND	ND			ND	ND	
FEB	Ì	0.680	1	ND	ND			ND	ND			ND	ND	
MAR	Î	0.940	Ì	10.0	ND			8.0	ND			3.9	ND	
APR	١	0.980	1	62.0	ND			75.0	ND			5.5	ND	
MAY	1	0.730	1	88.0	ND			90.0	ND			5.3	ND	
JUN	Ì	0.720	1	18.0	7.8			25.0	28.3			1.3	1.8	
JUL	ĺ	0.710	1	30.0	ND			20.0	ND			1.8	ND	
AUG	Î	0.710	1	18.0	ND			25.0	ND			1.7	ND	
SEP	Î	0.700	1	ND	ND			ND	ND			ND	ND	
OCT	Ī	0.750	1	130.0	ND			130.0	ND			5.1	ND	
NOV	1	0.830	1	11.0	23.0			10.0	29.8			0.9	2.3	
DEC	1	1.460	1	110.0	ND			120.0 	ND			4.9	ND	
AVER	AGE:	0.833	1	53.0	15.4		12.353	56.0	29.1		22.555	3.4	2.0	1.564
OBSE	RVATI	ONS:12	1	9	2			9	2			9	2	
EXCE	EDANC	ES	1					l				l		
NO O	F SAM	PLES	1	9	7			9	7			9	7	
			ł					Î				i		

COMPLIANCE :

CRITERIA :

NOTE :

BOD - YES

BOD - 30 mg/l

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

SS - YES SS - 40 mg/l TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

\* - EXCEEDS EFFLUENT CRITERIA

TP - YES

TP - NONE

ND - NO DATA

ANTICIPATED

REMEDIAL MEASURES

START DATE END DATE

COMPLIANCE

MUNICIPALITY : MATTAWA

PLANT : MATTAWA LAGOON

WORKS NUMBER : 110000436

TREATMENT : EXFILTRATION LAGOON

REGION

: NORTHEAST

DISTRICT

: NORTH BAY

WATERCOURSE

OPERATING AUTHORITY : MINISTRY

MAJOR BASIN

: MATTAWA RIVER : GREAT LAKES

MINOR BASIN

: OTTAWA RIVER

IJ

RECT

DESIGN CAPACITY : 0.24 1000 m3

POPULATION SERVED :

0

JC	DESIGNATION	:	INDIR

1000							Т					_			
1987	AV	G DAY	i	5 DA	Y BOD		i		SUSPEN	DED SOLI	DS	i		TOTAL PHO	SPHORUS
	F	LOW	INF	EFF		LOAD	1	INF	EFF		LOAD	INI	F	EFF	LOAD
	(100	0 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	10	mg/L)	(mg/L)	(%REM)	(kg/d)	( mg	g/L)	(mg/L)	(kg/d)
	1	102.1	I				T					1			
JAN	ı	ND	ND	ND		ND	1	ND	ND		ND	NC	)	ND	ND
FEB	1	ND	ND	ND		ND	1	ND	ND		ND	NE	)	ND	ND
MAR	1	ND	ND	ND		ND	1	ND	ND		ND	NO	)	ND	ND
APR	1	ND	ND	ND		ND	1	ND	ND		ND	N	)	ND	ND
MAY	1	ND	ND	ND		ND	1	ND	ND		ND	N	)	ND	ND
JUN	ı	ND	ND	ND		ND	i	ND	ND		ND	i NE	)	ND	ND
JUL	1	ND	ND.	ND		ND	î	ND	ND		ND	İNE	)	ND	ND
AUG	i	ND	ND	ND		ND	i	ND	ND		ND	i NO	)	ND	ND
SEP	i	ND	ND ND	ND		ND	i	ND	ND		ND	i NE	)	ND	ND
ОСТ	i	ND	ND	ND		ND	i	ND	ND		ND	IN		ND	ND
NOV	i	ND	ND	ND		ND	i	ND	ND		ND	I NO		ND	ND
DEC	i	ND	ND	ND		ND	ï	ND	ND		ND	i NE		ND	ND
	i		1				i				NU	"	•	NU	NU
	<u> </u>		+				÷					+-			
AVERA	GE:	0.000	0.0	0.0		0.000	i	0.0	0.0		0.000	10.	.0	0.0	0.000
OBSER	VATIO	NS: 0	i o	0			i	0	0				)	0	0.000
EXCEE			i				i					, ,		·	
NO OF		-	i o	0			i	0	0				)	0	
			i	ă.			i					`	•		
			1				1								

COMPLIANCE :

BOD - NO DISCHARGE

CRITERIA :

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

\* - EXCEEDS EFFLUENT CRITERIA

BOD - NO DISCHARGE BOD - 30 mg/l
SS - NO DISCHARGE SS - 40 mg/l
TP - NO DISCHARGE TP - NONE ND - NO DATA

ANTICIPATED

REMEDIAL MEASURES START DATE END DATE COMPLIANCE

ENGINEERING STUDY PHASE 87/11/01 88/03/31

MUNICIPALITY : MATTICE-VAL-COTE REGION : NORTHEAST
PLANT : MATTICE LAGOON DISTRICT : TIMMINS

WORKS NUMBER : 120001791 OPERATING AUTHORITY : MINISTRY

TREATMENT : CONVENTIONAL LAGOON SEASONAL WATERCOURSE : TAILING PD TO LARDER L.

MAJOR BASIN : ARCTIC WATERSHED
MINOR BASIN : JAMES BAY

DESIGN CAPACITY: 0.00 1000 m3 IJC DESIGNATION : INDIRECT

POPULATION SERVED : 0

NONE

	r	т —	-									
1987	I   AVG DAY	İ	5 DA	Y BOD		1	SUSPEN	IDED SOLI	DS	] ]	TOTAL PHO	SPHORUS
	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	l ND	ND	ND			ND	ND			ND	ND	
FEB	ND	ND	ND			ND	ND			ND	ND	
MAR	ND	ND ND	ND			ND	ND			ND	ND	
APR	ND	ND	ND			ND	ND			ND	ND	
MAY	ND	ND	ND			ND	ND			ND	ND	
JUN	ND ND	ND	ND			ND	ND			ND	ND	
JUL	ND	ND	ND			ND	ND			ND	ND	
AUG	ND	ND	ND			ND	ND			ND	ND	
SEP	j ND	ND	ND			ND	ND			ND	ND	
OCT	ND	ND	ND			ND	ND			ND	ND	
NOV	ND	ND	ND			ND	ND			ND	ND	
DEC	ND	ND	ND			ND	ND			ND	ND	
	l	!				1				i .		
AVERA	GE: 0.000	0.0	0.0		0.000	1 0.0	0.0		0.000	   0.0	0.0	0.000
OBSER	VATIONS: 0	0	0			i o	0			1 0	0	0.000
EXCEE	DANCES	ì				i				1	-	
NO OF	SAMPLES	j 0	0			i o	0			io	0	
		ì				i	<del></del>			i	•	

COMPLIANCE : CRITERIA : NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
BOD - INSUFFICIENT DATA BOD - 30 mg/l
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - INSUFFICIENT DATA SS - 40 mg/L \* - EXCEEDS EFFLUENT CRITERIA

TP - INSUFFICIENT DATA TP - NONE ND - NO DATA

REMEDIAL MEASURES ANTICIPATED

START DATE END DATE COMPLIANCE

DISTRICT MUNICIPALITY : MCGARRY : NORTHEAST PLANT : VIRGINIATOWN AND KEARNS WPCP : TIMMINS

OPERATING AUTHORITY : MUNICIPAL WORKS NUMBER : 120000024

WATERCOURSE : TAILING PD TO LARDER L. TREATMENT : COMMUNAL SEPTIC TANK

: GREAT LAKES MAJOR BASIN MINOR BASIN : OTTAWA RIVER

IJC DESIGNATION : NON IJC DESIGN CAPACITY : 0.72 1000 m3

POPULATION SERVED : 1000

1987	AVG DAY	1		5 DA	Y BOD		1	SUSPEN	DED SOLI	DS	1	TOTAL PHO	SPHORUS
	FLOW	١	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/d	)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	I ND	1	19.0	18.7	2	ND	   22.0	17.0	23	ND	   2.2	1.4	ND
FEB	ND ND	1	23.0	40.0	0	ND	18.0	20.4	0	ND	1.3	1.8	ND
MAR	ND	1	20.0	24.4	0	ND	55.0	24.9	55	ND	1.6	1.9	ND
APR	l ND	1	43.0	21.7	50	ND	27.0	19.3	29	ND	1.5	1.1	ND
YAM	ND ND	1	10.0	10.6	0	ND	19.0	17.8	6	ND	1.2	1.6	ND
JUN	ND	1	ND	ND	0	ND	ND	ND	0	ND	ND	ND	ND
JUL	ND ND	1	10.0	9.0	10	ND	50.0	15.0	70	ND	1.1	1.0	ND
AUG	ND	Ī	32.0	13.0	59	ND	55.0	25.0	55	ND	1.9	1.1	ND
SEP	ND	1	13.0	11.0	15	ND	20.0	15.0	25	ND	1.2	0.8	ND
OCT	l ND	١	195.0	34.0	83	ND	70.0	40.0	43	ND	1.9	1.6	ND
NOV	ND	١	50.0	12.0	76	ND	550.0	15.0	97	ND	2.7	0.8	ND
DEC	ND	1	20.0	18.0	10	ND	30.0 	25.0	17	ND	1.1 	1.2	ND
AVERA	GE: 0.000	j	40.0	19.3	38	0.000	83.0	21.3	42 *	0.000	1 1.6	1.3	0.000
OBSER	VATIONS: 0	į	11	11			11	11			111	11	
	SAMPLES	i	11	11			1 11	11			111	11	

COMPLIANCE : CRITERIA : NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

BOD - YES BOD - 30% TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

ss - 50% \* - EXCEEDS EFFLUENT CRITERIA SS - NO

TP - YES TP - NONE ND - NO DATA

ANTICIPATED

REMEDIAL MEASURES START DATE END DATE COMPLIANCE

MUNICIPALITY : MICHIPICOTEN DISTRICT REGION : NORTHEAST

PLANT : WAWA LAGOON : SAULT STE. MARIE

WORKS NUMBER : 110000454 OPERATING AUTHORITY : MINISTRY

TREATMENT : CONVENTIONAL LAGOON SEASONAL WATERCOURSE : MAGPIE RIVER

MAJOR BASIN : GREAT LAKES MINOR BASIN : LAKE SUPERIOR

IJC DESIGNATION : DIRECT DESIGN CAPACITY : 0.40 1000 m3

POPULATION SERVED: 0

1987	AVG DAY	1	5 DA	Y BOD		1	SUSPEN	IDED SOLI	DS	1 7	TOTAL PHO	SPHORUS
ĺ	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/d	)  (mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d
JAN	ND	ND	ND			ND	ND			ND	ND	
FEB	ND	ND	ND			ND	ND			ND	ND	
MAR	ND ND	ND	ND			ND	ND			ND	ND	
APR	ND ND	ND	ND			ND	ND			ND	ND	
MAY	ND ND	ND	ND			ND	ND			ND	ND	
JUN	ND ND	ND	ND			ND	ND			ND	ND	
JUL	ND	ND	ND			ND	ND			ND	ND	
AUG	ND ND	ND	ND			ND	ND			ND	ND	
SEP	ND.	ND	ND			ND	ND			ND	ND	
OCT	ND ND	ND	ND			ND	ND			ND	ND	
NOV	ND	ND	ND			ND	ND			ND	ND	
DEC	ND	ND	ND			ND	ND			ND	ND	
	1					1				<u> </u>		
AVERA	GE: 0.000	0.0	0.0		0.000	0.0	0.0		0.000	0.0	0.0	0.00
OBSER	VATIONS: 0	0	0			0	0			0	0	
EXCEE	DANCES	1				1				Ī		
NO OF	SAMPLES	0	0			0	0			1 0	0	

COMPLIANCE : CRITERIA : NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

BOD - NO DISCHARGE BOD - 30 mg/l TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - NO DISCHARGE SS - 40 mg/l \* - EXCEEDS EFFLUENT CRITERIA

TP - NO DISCHARGE TP - NONE ND - NO DATA

ANTICIPATED

REMEDIAL MEASURES START DATE END DATE COMPLIANCE

UNDER CONSTRUCTION 86/12/01

CONSTRUCTION COMPLETED 87/09/01

MUNICIPALITY : MOONBEAM : NORTHEAST
PLANT : MOONBEAM LAGOON DISTRICT : TIMMINS
WORKS NUMBER : 110000230 OPERATING AUTHORITY : MINISTRY

TREATMENT : CONVENTIONAL LAGOON SEASONAL WATERCOURSE : CREEK SYS TO GROUNDHOG R

MAJOR BASIN : ARCTIC WATERSHED

MINOR BASIN : JAMES BAY

DESIGN CAPACITY : 0.65 1000 m3 IJC DESIGNATION : NON IJC

POPULATION SERVED : 1000

1987	AV	G DAY	1	5 DA	Y BOD		1	SUSPEN	DED SOLI	DS	1	TOTAL PHO	SPHORUS
	F	LOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(100	00 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	I I	0.369	148.0	ND			1 169.0	ND			110.6	ND	
FEB	İ	0.808	ND ND	ND			ND	ND			ND	ND	
MAR	ĺ	0.219	213.0	ND			256.0	ND			9.4	ND	
APR	ı	0.223	116.0	ND			120.0	ND			3.9	ND	
MAY	l	0.312	110.0	ND			150.0	ND			7.0	ND	
JUN	١	0.277	ND ND	ND			ND	ND			ND	ND	
JUL	1	0.233	220.0	ND			320.0	ND			5.3	ND	
AUG	1	0.286	ND	ND			ND ND	ND			ND	ND	
SEP	ı	0.256	90.0	ND			130.0	ND			5.0	ND	
OCT	l	0.265	ND	ND			ND	ND			ND	ND	
NOV	l	0.268	ND ND	14.6			ND	23.0			ND	2.1	
DEC	1	0.242	ND	ND			ND	ND			ND	ND	
AVERAC	GE:	0.313	1 150.0	14.6		3.913	   191.0	23.0		6.164	1 6.9	2.1	0.563
OBSER	VATIO	NS:12	6	1			6	1			6	1	3,000
EXCEE	DANCE	S	l				l				1		
NO OF	SAMP	LES	6	4			6	4			6	4	

COMPLIANCE : CRITERIA : NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

BOD - YES BOD - 30 mg/l TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - YES SS - 40 mg/l \* - EXCEEDS EFFLUENT CRITERIA

TP - YES TP - NONE ND - NO DATA

ANTICIPATED

REMEDIAL MEASURES START DATE END DATE COMPLIANCE

MUNICIPALITY : MOOSONEE D.A.B.

PLANT : MOOSONEE WPCP (NORTH)

WORKS NUMBER : 120000319

TREATMENT : EXTENDED AERATION

REGION

: NORTHEAST

DISTRICT

: TIMMINS

OPERATING AUTHORITY : MINISTRY

WATERCOURSE

: MOOSE RIVER

MAJOR BASIN

: ARCTIC WATERSHED

MINOR BASIN

: JAMES BAY

DESIGN CAPACITY :

0.25 1000 m3

IJC DESIGNATION

: NON IJC

POPULATION SERVED :

300

1987	A	VG DAY	1	5 DA	Y BOD		1	SUSPEN	DED SOLI	DS	1 1	TOTAL PHO	SPHORUS
	1	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(10	00 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	1	0.220	55.0	7.8		1.716	   68.0	16.1		3.542	   2.2	0.3	0.059
FEB	ĺ	0.229	45.0	14.8		3.389	36.0	15.6		3.572	5	0.4	0.098
MAR	1	0.218	16.0	4.0		0.872	22.0	7.0		1.526	1.4	0.6	0.133
APR	1	0.214	23.0	6.6		1.412	46.0	14.6		3.124	2.1	0.4	0.092
MAY	1	0.217	21.0	5.3		1.150	37.0	10.3		2.235	0.6	0.2	0.041
JUN	1	0.217	44.0	1.8		0.391	115.0	8.1		1.758	1.1	0.2	0.037
JUL	1	0.205	32.0	2.2		0.451	57.0	11.8		2.419	1.4	0.2	0.049
AUG	1	0.218	14.0	6.1		1.330	51.0	22.8		4.970	4.5	0.4	0.09
SEP	1	0.212	30.0	23.4		4.961	52.0	8.9		1.887	4.6	0.3	0.05
OCT	1	0.224	41.0	3.7		0.829	90.0	17.8		3.987	2.4	0.4	0.083
NOV	1	0.250	25.0	6.2		1.550	72.0	31.9		7.975	2.6	1.1	0.263
DEC		0.272	ND	ND		ND	ND	ND		ND	ND	ND	ND
AVEDA		0.225	72.0		-		I 					8 0	
AVERA		0.225	32.0	7.4		1.641	59.0	15.0		3.363	2.2	0.4	0.09
EXCEE		ONS:12 Es	11 	11			11 	11			11 	11	
NO OF	SAM	PLES	18	18			1 18	18			i I 16	18	

COMPLIANCE :

CRITERIA :

NOTE :

BOD - YES SS - YES

BOD - 25 mg/l

SS - 25 mg/l

TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

\* - EXCEEDS EFFLUENT CRITERIA

TP - YES

TP - NONE

ND - NO DATA

ANTICIPATED

REMEDIAL MEASURES

START DATE END DATE

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

COMPLIANCE

MUNICIPALITY : MOOSONEE D.A.B.

PLANT : MOOSONEE WPCP (OLD TOWNSITE)

WORKS NUMBER : 110001060

TREATMENT : CONTACT STABILIZATION

REGION

: NORTHEAST

DISTRICT : TIMMINS OPERATING AUTHORITY : MINISTRY

WATERCOURSE

: STORE CK TO MOOSE RIVER

MAJOR BASIN

: ARCTIC WATERSHED

MINOR BASIN

: JAMES BAY

DESIGN CAPACITY : 0.50 1000 m3

POPULATION SERVED : 1200

IJC DESIGNATION : NON IJC

1987	AVG DAY	l	5 DA	Y BOD		l	SUSPEN	DED SOLI	DS	1 1	TOTAL PHO	SPHORUS
	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d
JAN	0.522	108.0	11.7		6.107	l   81.0	14.6		7.621	4.3	1.1	0.57
FEB	0.566	116.0	18.3		10.358	90.0	15.4		8.716	4.3	1.2	0.66
MAR	0.589	68.0	13.2		7.775	63.0	15.6		9.188	4.0	1.3	0.76
APR	0.673	79.0	39.3		26.449	114.0	31.5		21.200	4.7	1.8	1.23
MAY	0.592	157.0	55.0		32.560	146.0	13.0		7.696	4.2	5.0	2.94
JUN	0.547	398.0	30.2		16.519	317.0	18.7		10.229	8.8	1.1	0.58
JUL	0.540	25.0	2.4		1.296	195.0	5.3		2.862	5.3	0.2	0.11
AUG	0.537	425.0	ND		ND	327.0	ND		ND	ND	ND	ND
SEP	0.501	176.0	31.0		15.531	136.0	15.2		7.615	6.6	1.7	0.83
OCT	0.479	151.0	14.8		7.089	187.0	20.0		9.580	4.2	1.4	0.66
NOV	0.585	208.0	8.0		4.680	200.0	5.3		3.100	7.0	1.2	0.72
DEC	0.513	ND ND	ND		ND	ND	ND		ND	ND	ND	ND
	<u> </u>											
AVERA	GE: 0.554	174.0	22.4		12.836	1 169.0	15.5		8.781	5.3	1.6	0.91
	VATIONS:12 DANCES	11 	10			11 	10			10 	10	
10 OF	SAMPLES	19	18			19	18			18	18	

COMPLIANCE :

CRITERIA :

NOTE :

BOD - YES SS - YES

BOD - 25 mg/l SS - 25 mg/l

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

\* - EXCEEDS EFFLUENT CRITERIA

TP - YES TP - NONE ND - NO DATA

ANTICIPATED

REMEDIAL MEASURES START DATE END DATE COMPLIANCE

ENGINEERING STUDY PHASE

PROCESS CONTROL IMPROVEMENTS UNDERWAY

87/04/01

87/07/31 87/11/30

MUNICIPALITY : NEW LISKEARD

PLANT : NEW LISKEARD LAGOON

WORKS NUMBER: 110000515

TREATMENT : AERATED CELL PLUS LAGOON

CONTINUOUS DISCHARGE

PHOSPHORUS REMOVAL - CONTINUOUS

DESIGN CAPACITY :

5.50 1000 m3

POPULATION SERVED : 5500 REGION

: NORTHEAST

DISTRICT

: NORTH BAY

OPERATING AUTHORITY : MINISTRY

WATERCOURSE

: WABI RIVER

MAJOR BASIN

: GREAT LAKES

MINOR BASIN

: OTTAWA RIVER

IJC DESIGNATION : NON IJC

1987	AVG DAY	ĺ	5 DA	Y BOD		i	SUSPEN	DED SOLI	DS	i i	TOTAL	PHOS	PHORUS
MINE-ADMIN	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF		LOAD
i	(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)		)	(kg/d)
JAN	l   2.981	   138.0	5.6		16.694	   109.0	7.8		23.252	6.1	3.1	*	9.301
FEB	2.886	110.0	17.8		51.371	95.0	7.3		21.068	6.0	1.3	*	3.723
MAR	5.047	71.0	19.0		95.893	71.0	11.6		58.545	4.5	3.9	*	19.532
APR	5.221	63.0	18.0		93.978	71.0	20.0		104.420	3.5	2.7	*	14.097
MAY	4.247	80.0	26.7		113.395	122.0	41.5		176.250	5.1	1.5	*	6.201
JUN	3.883	78.0	4.1		15.920	105.0	7.0		27.181	4.9	1.4	*	5.281
JUL	3.879	69.0	3.4		13.189	108.0	9.0		34.911	4.8	0.8		3.064
AUG	3.048	82.0	1.6		4.877	130.0	4.3		13.106	5.7	0.5		1.433
SEP	3.157	93.0	1.4		4.420	136.0	1.0		3.157	5.6	0.4		1.389
OCT	3.415	75.0	1.1		3.757	119.0	6.5		22.198	4.5	0.2		0.649
NOV	3.744	108.0	2.2		8.237	168.0	4.0		14.976	5.7	0.4		1.610
DEC	3.773	70.0	4.9		18.488	77.0	4.0		15.092	4.6	0.5		1.698
	<u> </u>	<u> </u>								<u> </u>			
AVERAG	GE: 3.773	86.0	8.8		36.685	1 109.0	10.3		42.846	5.1	1.4	*	5.665
	VATIONS:12	12	12			12	12			12	12		
	DANCES SAMPLES	23	0			l   23	0			   23	0		

COMPLIANCE :

CRITERIA :

NOTE :

BOD - YES SS - YES

TP - NO

BOD - 30 mg/l

SS - 40 mg/l TP - 1.0 mg/l

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

\* - EXCEEDS EFFLUENT CRITERIA

ND - NO DATA

REMEDIAL MEASURES

START DATE END DATE

COMPLIANCE 87/08/31

ANTICIPATED

FACILITY OPERATIONAL

87/07/31

MUNICIPALITY : NICKEL CENTRE REGION : NORTHEAST

PLANT : CONISTON WPCP DISTRICT : SUDBURY

WORKS NUMBER : 110000123 OPERATING AUTHORITY : MUNICIPAL

TREATMENT : OXIDATION DITCH WATERCOURSE : CONISTON CREEK

CONVENTIONAL ACTIVATED SLUDGE MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE HURON

DESIGN CAPACITY : 3.00 1000 m3 IJC DESIGNATION : INDIRECT

POPULATION SERVED : 2360

1987	AVG DAY	1	5 DA	Y BOD		1	SUSPEN	DED SOLI	DS	1 1	TOTAL PHO	SPHORUS
	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	l l 0.953	1 108.0	113.1		107.784	l l 138.0	74.0		70.522	l   5.9	6.7	6.385
FEB	0.999	1 180.0	30.2		30.170	• 50000000	40.5		40.459		3.5	3.497
MAR	1.332	112.0	4.4		5.861	119.0	14.2		18.914	5.9	2.3	3.064
APR	1.380	130.0	2.9		4.002	73.0	8.7		12.006	2.5	1.5	2.070
MAY	1.242	1 125.0	1.2		1.490	106.0	7.4		9.191	4.5	2.6	3.229
JUN	0.994	107.0	1.6		1.590	131.0	4.4		4.374	3.0	2.1	2.087
JUL	0.759	125.0	4.8		3.643	163.0	3.6		2.732	6.2	3.2	2.42
AUG	0.687	110.0	3.0		2.061	169.0	2.5		1.718	6.4	3.0	2.06
SEP	0.893	125.0	3.9		3.483	195.0	3.9		3.483	6.3	2.9	2.590
ОСТ	1.304	106.0	8.0		10.432	129.0	4.9		6.390	4.8	2.3	2.99
NOV	1.250	100.0	3.3		4.125	194.0	3.5		4.375	5.1	3.0	3.75
DEC	1.744 	73.0 	4.2		7.325	105.0 	3.8		6.627	4.2	1.5	2.61
AVERA	GE: 1.128	   117.0	15.1		15.164	1 138.0	14.3		15.066	1 5.0	2.9	3.065
OBSER	VATIONS:12	12	12			12	12			12	12	
	DANCES SAMPLES	23	29			   169	187			24	30	

COMPLIANCE : CRITERIA : NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
BOD - YES BOD - 25 mg/l TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - YES SS - 25 mg/l \* - EXCEEDS EFFLUENT CRITERIA

TP - YES TP - NONE ND - NO DATA

ANTICIPATED

REMEDIAL MEASURES START DATE END DATE COMPLIANCE

MUNICIPALITY : NICKEL CENTRE

: FALCONBRIDGE TOWNSITE WPCP

WORKS NUMBER : 120001158

: TRICKLING FILTER TREATMENT

REGION : NORTHEAST DISTRICT : SUDBURY

OPERATING AUTHORITY : MUNICIPAL

WATERCOURSE : BOUCHER L TO CONISTON CR

MAJOR BASIN : GREAT LAKES MINOR BASIN : LAKE HURON IJC DESIGNATION : INDIRECT

DESIGN CAPACITY :

PLANT

0.45 1000 m3

POPULATION SERVED : 910

SUSPENDED SOLIDS 1987 | AVG DAY 5 DAY BOD TOTAL PHOSPHORUS FLOW INF EFF LOAD INF EFF LOAD INF EFF LOAD |(1000 m3/d) |(mg/L) (mg/L) (%REM) (kg/d) |(mg/L) (mg/L) (%REM) (kg/d) (mg/L) (mg/L) (kg/d) | ND 1 117.0 67.0 117.0 39.2 ND | 5.1 3.6 ND JAN 232.0 14.552 | 162.0 0.474 30.7 26.5 12.561 | 8.3 3.0 FEB 1.413 | MAR 0.622 83.0 32.5 20.215 | 87.0 27.9 17.354 | 4.0 2.7 1.655 | 22.664 | 133.0 0.748 87.0 30.3 30.6 22.889 | 4.2 3.0 2.237 | APR 72.0 23.426 | 139.0 28.599 | 3.5 MAY 0.739 31.7 38.7 3.5 2.550 I 29.1 0.807 87.0 23.484 | 91.0 27.922 | 4.3 JUN 34.6 4.8 3.866 JUL 0.836 35.0 20.0 16.720 | 73.0 32.3 27.003 | 3.0 2.7 2.215 59.0 11.284 | 79.0 18.273 | 3.4 AUG 0.728 15.5 25.1 2.6 1.893 0.798 65.0 13.965 | 67.0 22.7 SEP 17.5 18.115 | 2.6 2.2 1.716 OCT 0.723 99.0 31.0 22.413 | 97.0 26.0 18.798 | 4.8 3.1 2.205 | 18.549 | 106.0 0.687 1 180.0 27.0 39.0 26.793 | 5.2 NOV 2.9 1.958 | 25.406 | 4.6 0.789 68.0 20.5 16.175 | 127.0 DEC 32.2 2.6 2.051 I 99.0 29.4 \* AVERAGE: 0.723 18.495 | 106.0 31.2 \* 22.156 | 4.4 3.0 2.160 | OBSERVATIONS:11 12 12 12 12 12 12 **EXCEEDANCES** NO OF SAMPLES 24 24 151 157 32 24

COMPLIANCE :

CRITERIA :

NOTE :

BOD - NO SS - NO

TP - YES

BOD - 25 mg/l

SS - 25 mg/l TP - NONE

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

\* - EXCEEDS EFFLUENT CRITERIA

ND - NO DATA

REMEDIAL MEASURES

START DATE END DATE

ANTICIPATED COMPLIANCE

UNDER DISCUSSION WITH MUNICIPALITY

88/04/01 87/07/31 89/12/31

MUNICIPALITY : NICKEL CENTRE

PLANT : GARSON LAGOON (STANDBY)

WORKS NUMBER : 120004887

TREATMENT : CONVENTIONAL LAGOON SEASONAL

REGION

: NORTHEAST

DISTRICT

: SUDBURY

OPERATING AUTHORITY : MUNICIPAL

WATERCOURSE

: FLOW TO SUDBURY WPCP

MAJOR BASIN

: GREAT LAKES : LAKE HURON

MINOR BASIN

IJC DESIGNATION

: INDIRECT

POPULATION SERVED : 4714

DESIGN CAPACITY : 3.45 1000 m3

POPUL	ATTON SERVED	: 4/1	<del>5</del> .									×-
1987	AVG DAY	1	5 DA	Y BOD		 	SUSPEN	IDED SOLI	DS		TOTAL PHO	SPHORUS
	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	l ND	ND	ND			I ND	ND			ND	ND	
FEB	ND	ND	ND			ND	ND			ND	ND	
MAR	1.161	ND	ND			ND	ND			ND	ND	
APR	0.684	188.0	ND			104.0	ND			6.5	ND	
MAY	0.604	ND	ND			ND	ND			ND	ND	
JUN	ND	88.0	ND			81.0	ND			4.7	ND	
JUL	ND	ND	ND			ND	ND			ND	ND	
AUG	ND ND	ND	ND			ND	ND			ND	ND	
SEP	ND ND	ND	ND			ND	ND			ND	ND	
OCT	ND	ND	1.3			ND	5.7			ND	1.8	
NOV	ND	ND	ND			ND	ND			ND	ND	
DEC	ND 	ND	ND			ND	ND			ND	ND	
AVERA	GE: 0.816	138.0	1.3		0.000	92.0	5.7		0.000	1 5.6	1.8	0.000
OBSER	VATIONS: 3 DANCES	2	1			2 	1			2	1	
NO OF	SAMPLES	2	3				3			i 2	3	

COMPLIANCE :

CRITERIA :

NOTE :

BOD - YES SS - YES

REMEDIAL MEASURES

BOD - 30 mg/l SS - 40 mg/l

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

\* - EXCEEDS EFFLUENT CRITERIA

ND - NO DATA TP - YES TP - NONE

ANTICIPATED

START DATE END DATE

COMPLIANCE

MUNICIPALITY : NICKEL CENTRE

PLANT : WAHNAPITAE LAGOON

WORKS NUMBER : 120003156

TREATMENT : CONVENTIONAL LAGOON SEASONAL

REGION

: NORTHEAST

DISTRICT : SUDBURY

OPERATING AUTHORITY : MUNICIPAL

WATERCOURSE

: WANAPITEI RIVER

MAJOR BASIN

: GREAT LAKES

MINOR BASIN

: LAKE HURON

IJC DESIGNATION : INDIRECT

DESIGN CAPACITY :

1.33 1000 m3

POPULATION SERVED :

2020

							I				T		
1987	A\	/G DAY	l	5 DA	Y BOD		1	SUSPEN	DED SOLI	DS	1	TOTAL PHO	SPHORUS
		FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(100	00 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d
JAN	i	0.481	ND	ND			l I ND	ND			l ND	ND	
FEB	Ì	0.389	ND	ND			ND ND	ND			ND	ND	
MAR	i	0.505	ND ND	ND			ND	ND			ND	ND	
APR	1	0.697	28.0	ND			202.0	ND			1.3	ND	
MAY	1	0.539	ND ND	ND			ND ND	ND			ND	ND	
JUN	1	0.388	ND	ND			ND ND	ND			ND	ND	
JUL	1	0.387	ND ND	ND			ND	ND			ND	ND	
AUG	1	0.356	ND	ND			ND	ND			ND	ND	
SEP	l	0.706	ND ND	ND			ND	ND			ND	ND	
OCT	1	0.507	ND	1.4			ND	3.3			ND	0.1	
NOV	1	0.398	ND	ND			ND	ND			ND	ND	
DEC	] 	0.525	ND	ND			ND	ND			ND	ND	
AVERA	GE:	0.490	   28.0	1.4		0.710	202.0	3.3		1 673	1 1.3	0.1	0.030
		ONS:12	1 1	1		7,71,0	1 1	1		1.0/3	1 1.3	1	0.030
EXCEE			i	\$				M.			1.1	,	
NO OF	SAME	PLES	1 1	3			1	3			1 1	3	

COMPLIANCE :

CRITERIA :

NOTE :

BOD - YES SS - YES BOD - 30 mg/l

TP - YES

SS - 40 mg/l

TP - NONE

\* - EXCEEDS EFFLUENT CRITERIA

ND - NO DATA

REMEDIAL MEASURES

START DATE END DATE

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

ANTICIPATED COMPLIANCE

MUNICIPALITY: NORTH BAY

PLANT: NORTH BAY WPCP

BISTRICT: NORTH BAY

WORKS NUMBER: 110000533

REGION: NORTH BAY

DISTRICT: NORTH BAY

OPERATING AUTHORITY: MINISTRY

WORKS NUMBER: 110000533 OPERATING AUTHORITY: MINISTRY
TREATMENT: CONVENTIONAL ACTIVATED SLUDGE WATERCOURSE: LAKE NIPS

: CONVENTIONAL ACTIVATED SLUDGE WATERCOURSE : LAKE NIPISSING PHOSPHORUS REMOVAL-CONTINUOUS MAJOR BASIN : GREAT LAKES MINOR BASIN : LAKE HURON

DESIGN CAPACITY : 36.36 1000 m3 IJC DESIGNATION : INDIRECT

POPULATION SERVED : 48000

						J						
1987	AVG DAY	I	5 DA	Y BOD		1	SUSPEN	DED SOLI	DS	1 1	TOTAL PHO	SPHORUS
	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	l 26.650	1 457.0	23.5		626.275	   841 N	9.5		253.175	123.1	1.7 *	44.239
FEB	24.150	543.0	40.6		980.490		11.1		268.065	• 0-20-00-00-00-00-00-00-00-00-00-00-00-00	1.7 *	39.847
MAR	34.210	338.0	12.3		420.783	** (9/5/D (9/6))###62	21.9		749.199	50	1.1 *	37.631
APR	34.050	198.0	20.0		681.000	434.0	9.8		333.690	11.6	0.7	23.835
MAY	29.290	681.0	34.7		1016.363	1114.0	19.0		556.510	33.7	1.2 *	34.562
JUN	33.476	691.0	24.1		806.772	729.0	14.4		482.054	13.2	1.4 *	46.866
JUL	25.425	366.0	18.0		457.650	620.0	18.0		457.650	13.2	1.1 *	27.713
AUG	21.455	188.0	11.8		253.169	390.0	11.8		253.169	12.8	1.1 *	23.171
SEP	18.314	117.0	3.6		65.930	355.0	11.6		212.442	7.1	0.9	16.299
OCT	27.593	202.0	8.8		242.818	555.0	10.0		275.930	13.5	0.8	22.074
NOV	31.886	173.0	9.6		306.106	586.0	10.6		337.992	10.8	0.8	26.784
DEC	29.053 	131.0	11.1		322.488	656.0	9.8		284.719	17.9	0.6	18.303
AVEDA	GE: 27.963	340.0	18.2		514.987	1 696.0	17.4		772.050	1		70.440
	VATIONS:12	1 12	12		314.907	1 12	13.1 12		372.050		1.1 *	30.110
	DANCES	1 12	12			1 12	12			12	12	
	SAMPLES	1 44	43			225	231			1 44	7 50	
		1				1	231			1 ***	30	

COMPLIANCE : CRITERIA : NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

BOD - YES BOD - 25 mg/l TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - YES SS - 25 mg/l \* - EXCEEDS EFFLUENT CRITERIA

TP - NO TP - 1.0 mg/L ND - NO DATA

ANTICIPATED

REMEDIAL MEASURES START DATE END DATE COMPLIANCE

EXISTING EQUIPMENT/OPERATION IS BEING MODIFIED 87/04/01 87/09/30

MUNICIPALITY: NORTH HIMSWORTH REGION
PLANT: CALLANDER LAGOON DISTRICT

WORKS NUMBER : 110001747

TREATMENT : CONVENTIONAL LAGOON SEASONAL WATERCOURSE : DITCH TO CALLANDER BAY

: NORTHEAST

: NORTH BAY

OPERATING AUTHORITY : MINISTRY

PHOSPHORUS REMOVAL - BATCH MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE HURON

DESIGN CAPACITY: 0.47 1000 m3 HINOR BASIN : LAKE HURON IJC DESIGNATION : INDIRECT

POPULATION SERVED: 1220

1987	AVG DAY	I	5 DA	Y BOD		l	SUSPEN	DED SOLI	DS	1 :	OTAL PHO	SPHORUS
	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	0.575	1 115.0	ND			1 136.0	ND			   7.0	ND	
FEB	0.232	281.0	ND			353.0	ND			7.4	ND	
MAR	0.615	85.0	11.3			95.0	16.4			5.2	1.8 *	
APR	0.673	97.0	8.8			135.0	13.3			4.0	0.4	
MAY	0.679	117.0	ND			145.0	ND			5.6	ND	
JUN	0.775	91.0	ND			130.0	ND			6.2	ND	
JUL	1.011	95.0	ND			105.0	ND			6.7	ND	
AUG	0.751	88.0	ND			92.0	ND			5.7	ND	
SEP	0.458	104.0	ND			130.0	ND			6.0	ND	
OCT	0.653	113.0	2.5			165.0	4.5			7.2	0.5	
NOV	0.586	125.0	ND			140.0	ND			6.9	ND	
DEC	0.629 	102.0 	ND			130.0 	ND			5.2	ND	
AVERA	GE: 0.636	118.0	7.5		4.835	   146.0	11.4		7.325	6.1	0.9	0.578
OBSER	VATIONS: 12	1 12	3			1 12	3			1 12	3	0.5/(
EXCEE	DANCES	į				i	-			i	1	
NO OF	SAMPLES	J 20	8			20	8			1 20	8	

COMPLIANCE : CRITERIA : NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS
BOD - YES BOD - 30 mg/L TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - YES SS - 40 mg/L \* - EXCEEDS EFFLUENT CRITERIA

TP - NO TP - 1.0 mg/l ND - NO DATA

REMEDIAL MEASURES

START DATE

START DATE

END DATE

COMPLIANCE

FINAL DESIGN PHASE

UNDER CONSTRUCTION

CONSTRUCTION COMPLETED

ANTICIPATED

COMPLIANCE

87/07/31 87/11/30

88/05/01 89/04/01

90/04/01 90/05/01

MUNICIPALITY : ONAPING FALLS REGION : NORTHEAST PLANT : DOWLING WPCP DISTRICT : SUDBURY WORKS NUMBER : 110003077 OPERATING AUTHORITY : MUNICIPAL

WATERCOURSE TREATMENT : EXTENDED AERATION : ONAPING RIVER

MAJOR BASIN : GREAT LAKES MINOR BASIN : LAKE HURON

DESIGN CAPACITY : 2.08 1000 m3 IJC DESIGNATION : INDIRECT

POPULATION SERVED : 1889

1987	A	G DAY		5 DA	Y BOD		1	SUSPEN	DED SOLI	DS	1 1	TOTAL PHO	SPHORUS
	] (	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(100	00 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d
JAN	i	1.700	43.0	7.9		13.430	44.0	4.7		7.990	2.6	1.4	2.31
FEB	l	1.718	58.0	11.2		19.242	41.0	5.0		8.590	2.9	1.4	2.40
MAR	1	1.740	51.0	4.6		8.004	59.0	4.7		8.178	2.8	1.4	2.38
APR	1	1.862	39.0	16.1		29.978	45.0	8.0		14.896	2.3	1.3	2.36
MAY	1	1.814	52.0	9.1		16.507	48.0	10.8		19.591	2.7	1.5	2.68
JUN	1	1.774	34.0	9.0		15.966	47.0	7.8		13.837	3.0	1.5	2.71
JUL	1	1.774	35.0	11.7		20.756	39.0	11.2		19.869	3.1	1.7	2.96
AUG	1	1.900	39.0	7.9		15.010	56.0	8.1		15.390	3.1	1.7	3.23
SEP	1	1.678	45.0	3.0		5.034	48.0	9.8		16.444	3.1	1.6	2.68
OCT	1	1.627	48.0	6.6		10.738	58.0	8.9		14.480	2.4	1.5	2.44
NOV	1	1.600	46.0	6.2		9.920	44.0	6.4		10.240	2.8	1.6	2.56
DEC		1.488	61.0	4.9		7.291	65.0 	7.4		11.011	2.7 	1.4	2.00
AVERA	GE:	1.723	46.0	8.2		14.323	50.0	7.7		13.376	1 2.8	1.5	2.56
OBSER EXCEE		ONS:12 ES	12 	12			12 	12			12 	12	
NO OF	SAME	PLES	24	25			169	169			1 24	25	

COMPLIANCE : CRITERIA : NOTE :

> BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS BOD - YES BOD - 25 mg/l TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - YES SS - 25 mg/l \* - EXCEEDS EFFLUENT CRITERIA TP - YES TP - NONE ND - NO DATA

ANTICIPATED REMEDIAL MEASURES START DATE END DATE COMPLIANCE

COLLECTION SYSTEM INPUT MONITORING 88/04/30 1990

MUNICIPALITY : ONAPING FALLS

PLANT : LEVACK WPCP

WORKS NUMBER : 120001194

TREATMENT : EXTENDED AERATION

: NORTHEAST

: SUDBURY

DISTRICT OPERATING AUTHORITY : MUNICIPAL

WATERCOURSE

: ONAPING RIVER

MAJOR BASIN

: GREAT LAKES

MINOR BASIN : LAKE HURON

DESIGN CAPACITY :

1.58 1000 m3

POPULATION SERVED :

2008

IJC DESIGNATION : INDIRECT

4007	!		!								!		
1987		/G DAY	ļ		Y BOD		j.		DED SOLI		·	TOTAL PHO	
	1 1	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(100	00 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	l	1.137	1 105.0	7.8		8.869	   133.0	5.6		6.367	   5.9	3.4	3.900
FEB	ĺ	1.170	134.0	10.5		12.285	64.0	3.3		3.861	6.1	3.5	4.142
MAR	1	1.224	102.0	13.0		15.912	92.0	7.0		8.568	6.2	3.3	4.076
APR	ŀ	1.211	156.0	13.0		15.743	173.0	8.7		10.536	6.6	3.5	4.190
MAY	1	1.061	105.0	5.2		5.517	64.0	5.0		5.305	4.8	3.3	3.469
JUN	1	0.956	129.0	4.6		4.398	164.0	10.3		9.847	7.1	3.5	3.308
JUL	1	1.040	53.0	3.7		3.848	176.0	6.3		6.552	6.1	3.4	3.48
AUG	1	1.260	61.0	2.8		3.528	87.0	3.6		4.536	5.3	3.0	3.71
SEP	1	1.368	87.0	1.5		2.052	101.0	8.0		10.944	6.4	2.7	3.694
OCT	1	1.374	86.0	2.7		3.710	116.0	8.5		11.679	4.3	2.4	3.29
NOV	I	1.348	61.0	3.9		5.257	52.0	4.9		6.605	4.0	2.9	3.909
DEC	1	1.411	121.0 	11.5		16.227	86.0 	10.0		14.110	4.3	2.8	3.880
AVERA	GE:	1.213	100.0	6.7		8.112	   109.0	6.8		8.243	1 5.6	3.1	3.756
OBSER EXCEE		ONS:12	j 12	12			12 	12			1 12	12	
NO OF	SAMI	PLES	24	25			, I 170	171			1 24	25	

COMPLIANCE :

CRITERIA :

NOTE :

BOD - YES SS - YES

TP - YES

BOD - 25 mg/l

TP - NONE

SS - 25 mg/l

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

\* - EXCEEDS EFFLUENT CRITERIA

ND - NO DATA

ANTICIPATED

REMEDIAL MEASURES

START DATE END DATE

COMPLIANCE

MUNICIPALITY : ONAPING FALLS REGION : NORTHEAST
PLANT : ONAPING WPCP DISTRICT : SUDBURY
WORKS NUMBER : 120001149 OPERATING AUTHORITY : MUNICIPAL

TREATMENT : CONVENTIONAL ACTIVATED SLUDGE WATERCOURSE : SWAMP TO ONAPING RIVER

MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE HURON

DESIGN CAPACITY : 0.68 1000 m3 IJC DESIGNATION : INDIRECT

POPULATION SERVED: 907

1987	AVG DAY	1	5 DA	Y BOD		ı	SUSPEN	DED SOLI	DS	1 1	TOTAL PHO	SPHORUS
	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	I 0.600	1 95.0	18.5		11,100	   94.0	6.9		4.140	15.4	3.0	1.788
FEB	0.600	68.0	30.1		18.060	43.0	8.6		5.160	The state ages	3.6	2,172
MAR	0.595	64.0	18.8		11.186	78.0	8.6		5.117	3.2	3.0	1.803
APR	0.600	96.0	5.9		3.540	88.0	7.5		4.500	4.5	3.4	2.016
MAY	0.600	92.0	9.2		5.520	72.0	6.3		3.780	5.8	3.6	2.160
JUN	0.600	89.0	8.5		5.100	137.0	20.9		12.540	6.1	4.0	2.394
JUL	0.584	141.0	10.5		6.132	121.0	15.1		8.818	4.4	3.5	2.044
AUG	0.543	87.0	7.9		4.290	104.0	6.2		3.367	6.6	3.7	2.009
SEP	0.547	88.0	9.5		5.197	112.0	6.4		3.501	6.1	3.7	1.997
OCT	0.540	95.0	7.5		4.050	133.0	16.2		8.748	6.3	3.5	1.863
NOV	0.530	95.0	11.0		5.830	116.0	6.5		3.445	5.8	3.9	2.041
DEC	0.541 	148.0 	6.6		3.571	98.0 	6.9		3.733	7.1 	3.6	1.921
AVERA	GE: 0.573	1 96.0	12.0		6.965	1 100.0	9.7		5.571	1 5.4	3.5	2.017
OBSER	VATIONS:12	12 	12			12 	12			12	12	
	SAMPLES	27	25			173	172			26	25	

COMPLIANCE : CRITERIA : NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

BOD - YES BOD - 25 mg/l TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - YES SS - 25 mg/l \* - EXCEEDS EFFLUENT CRITERIA

TP - YES TP - NONE ND - NO DATA

REMEDIAL MEASURES ANTICIPATED

START DATE END DATE COMPLIANCE

FINAL DESIGN PHASE 88/01/31 89/06/31 1989

REGION DISTRICT MUNICIPALITY : OPASATIKA : NORTHEAST PLANT : OPASATIKA LAGOON : TIMMINS

WORKS NUMBER : 120000658 OPERATING AUTHORITY : MINISTRY

TREATMENT : CONVENTIONAL LAGOON SEASONAL WATERCOURSE : OPASATIKA RIVER MAJOR BASIN : ARCTIC WAT MINOR BASIN : JAMES BAY PHOSPHORUS REMOVAL - BATCH : ARCTIC WATERSHED

IJC DESIGNATION : NON IJC DESIGN CAPACITY : 0.00 1000 m3

POPULATION SERVED : 0

1987	AVG DAY	1	5 DA	Y BOD		1	SUSPEN	DED SOLI	DS	1 1	TOTAL PHO	SPHORUS
	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d
JAN	I   ND	ND	ND			ND	ND			ND	ND	
FEB	ND	ND ND	ND			ND	ND			ND	ND	
MAR	ND ND	ND	ND			ND	ND			ND	ND	
APR	ND	ND	ND			ND	ND			ND	ND	
MAY	ND	ND ND	ND			ND	ND			ND	ND	
JUN	ND	ND	ND			ND ND	ND			ND	ND	
JUL	ND	ND	ND			ND	ND			ND	ND	
AUG	ND	ND	ND			ND	ND			ND	ND	
SEP	ND	ND	ND			ND	ND			ND	ND	
OCT	ND	ND	ND			ND	ND			ND	ND	
NOV	ND	ND	ND			ND	ND			ND	ND	
DEC	ND	ND	ND			ND	ND			ND	ND	
AVED 4	0.000				0.000	+						
AVERA		0.0	0.0		0.000		0.0		0.000	0.0	0.0	0.00
	VATIONS: 0 DANCES	0 	0			0 	0			0 	0	
10 OF	SAMPLES	0	0			0	0			1 0	0	

COMPLIANCE : CRITERIA : NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

BOD - INSUFFICIENT DATA BOD - 30 mg/l TOTAL PHOSPHOR
SS - INSUFFICIENT DATA SS - 40 mg/l \* - EXCEEDS
ND - NO DATA \* - EXCEEDS EFFLUENT CRITERIA

ANTICIPATED

REMEDIAL MEASURES START DATE END DATE COMPLIANCE

OPERATOR TRAINING IS BEING PROVIDED 88/02/01

MUNICIPALITY: PARRY SOUND REGION: NORTHEAST
PLANT: PARRY SOUND WPCP
DISTRICT: NORTH BAY
WORKS NUMBER: 110000560
OPERATING AUTHORITY: MINISTRY

TREATMENT : CONVENTIONAL ACTIVATED SLUDGE WATERCOURSE : MC CURRY LAKE

PHOSPHORUS REMOVAL-CONTINUOUS MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE HURON

DESIGN CAPACITY : 6.59 1000 m3 IJC DESIGNATION : INDIRECT

POPULATION SERVED : 5500

1987	A	VG DAY	1	5 DA	Y BOD		1	SUSPEN	DED SOLI	DS	1 1	TOTAL PHO	SPHORUS
	1	FLOW	INF	EFF		LOAD	INF:	EFF		LOAD	INF	EFF	LOAD
10.00	(10	00 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	1	4.320	   118.0	6.2		26.784	99.0	3.2		13.824	   5.3	0.6	2.722
FEB	i	4.010	114.0	10.7		42.907	84.0	4.5		18.045	5.0	0.9	3.769
MAR	İ	8.170	92.0	15.3		125.001	80.0	2.8		22.876	3.5	0.6	4.657
APR	i	8.670	56.0	4.0		34.680	79.0	4.4		38.148	3.1	0.7	5.896
MAY	1	6.220	76.0	12.6		78.372	177.0	9.5		59.090	3.3	1.0	5.909
JUN	1	6.524	106.0	15.9		103.732	131.0	10.0		65.240	5.0	0.9	5.676
JUL	1	5.840	114.0	1.6		9.344	157.0	3.2		18.688	5.5	0.6	3.679
AUG	1	6.074	47.0	3.0		18.222	110.0	2.6		15.792	5.0	0.8	4.73
SEP	1	5.451	89.0	10.7		58.326	136.0	8.1		44.153	4.7	0.9	4.79
OCT	1	6.941	92.0	9.5		65.939	206.0	7.2		49.975	4.5	0.6	4.026
NOV	1	7.691	99.0	6.1		46.915	104.0	7.4		56.913	3.8	0.8	6.230
DEC	1	10.139	67.0 	4.4		44.612	84.0 	7.1		71.987	3.8 	0.7	7.09
AVERA	GE:	6.671	89.0	8.3		54.569	121.0	5.8		39.561	4.4	0.8	4.93
OBSER Excee		ONS:12 ES	12 	12			12 	12			12 	12	
NO OF	SAM	PLES	59	60			70	69			70	63	

COMPLIANCE : CRITERIA : NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

BOD - YES BOD - 25 mg/l TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - YES SS - 25 mg/l \* - EXCEEDS EFFLUENT CRITERIA

TP - YES TP - 1.0 mg/L ND - NO DATA

REMEDIAL MEASURES START DATE END DATE COMPLIANCE

MUNICIPALITY : POWASSAN

REGION

: NORTHEAST

PLANT : POWASSAN LAGOON

DISTRICT

: NORTH BAY

WORKS NUMBER : 110000613

OPERATING AUTHORITY : MINISTRY

TREATMENT : CONVENTIONAL LAGOON SEASONAL

WATERCOURSE

: GENESEE CREEK

PHOSPHORUS REMOVAL - BATCH REGULATED DISCHARGE VOLUME

MAJOR BASIN MINOR BASIN : GREAT LAKES : LAKE HURON

DESIGN CAPACITY :

0.84 1000 m3

POPULATION SERVED: 1100

IJC DESIGNATION : INDIRECT

AVG DAY FLOW (1000 m3/d)	   INF  (mg/L)	EFF	Y BOD		I	SUSPEN	DED SOLI	DS	į,	TOTAL PHO	SPHORUS
	•								<b>I</b>	IOIAL I IIO	J. 1101100
(1000 m3/d)	(mg/L)	ACCOUNT 1889 1987		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	·	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
0.595	l ND	ND			   ND	ND			ND	ND	
0.456	ND	ND			ND	ND			ND	ND	
1.062	112.0	ND			106.0	ND			4.7	ND	
0.930	56.0	ND			40.0	ND			4.4	ND	
1.012	ND	ND			ND	ND			ND	ND	
0.962	ND	16.2			ND	13.0			ND	0.7	
0.820	68.0	ND			85.0	ND			5.6	ND	
0.704	32.0	ND			100.0	ND			3.1	ND	
0.677	ND ND	ND			ND	ND			ND	ND	
0.864	100.0	ND			140.0	ND			5.2	ND	
0.801	ND	ND			ND	ND			ND	ND	
0.694	ND	ND			ND	ND			ND	ND	
	<u> </u>			MANA CANADA CA	T	1000000 0000			Ţ	50.50	
				15.584	94.0	13.0		12.506	4.6	0.7	0.693
ATIONS:12 Ances	5 	1			5 	1			5 	1	
SAMPLES	5	2			5	1			5	2	
A	1.062 0.930 1.012 0.962 0.820 0.704 0.677 0.864 0.801 0.694	1.062   112.0 0.930   56.0 1.012   ND 0.962   ND 0.820   68.0 0.704   32.0 0.677   ND 0.864   100.0 0.801   ND 0.694   ND	1.062   112.0 ND 0.930   56.0 ND 1.012   ND ND 0.962   ND 16.2 0.820   68.0 ND 0.704   32.0 ND 0.677   ND ND 0.864   100.0 ND 0.801   ND ND 0.694   ND ND 0.694   ND ND	1.062   112.0 ND 0.930   56.0 ND 1.012   ND ND 0.962   ND 16.2 0.820   68.0 ND 0.704   32.0 ND 0.677   ND ND 0.864   100.0 ND 0.801   ND ND 0.694   ND ND 0.694   ND ND	1.062   112.0 ND 0.930   56.0 ND 1.012   ND ND 0.962   ND 16.2 0.820   68.0 ND 0.704   32.0 ND 0.677   ND ND 0.864   100.0 ND 0.801   ND ND 0.694   ND ND 0.694   ND ND 0.694   ND ND  1:: 0.798   74.0 16.2 15.584 NTIONS:12   5 1	1.062   112.0 ND   106.0 0.930   56.0 ND   40.0 1.012   ND ND   ND 0.962   ND 16.2   ND 0.820   68.0 ND   85.0 0.704   32.0 ND   100.0 0.677   ND ND   ND 0.864   100.0 ND   140.0 0.801   ND ND   ND 0.694   ND ND   ND  1: 0.798   74.0 16.2   15.584   94.0 NTIONS:12   5 1   5	1.062   112.0 ND	1.062   112.0 ND	1.062   112.0 ND	1.062   112.0 ND	1.062   112.0 ND

COMPLIANCE :

CRITERIA :

NOTE :

BOD - YES

BOD - 30 mg/l

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - YES SS - 40 mg/l TP - YES TP - 1.0 mg/l

\* - EXCEEDS EFFLUENT CRITERIA

ND - NO DATA

ANTICIPATED

REMEDIAL MEASURES

START DATE END DATE

COMPLIANCE

MUNICIPALITY : RATTER & DUNNET PLANT : WARREN LAGOON

WORKS NUMBER : 110001916

TREATMENT : CONVENTIONAL LAGOON SEASONAL

PHOSPHORUS REMOVAL - BATCH

REGION DISTRICT : NORTHEAST

OPERATING AUTHORITY : MINISTRY

: SUDBURY

WATERCOURSE

: VEUVE RIVER

MAJOR BASIN

: GREAT LAKES

MINOR BASIN

: LAKE HURON

DESIGN CAPACITY :

0.68 1000 m3

IJC DESIGNATION

: INDIRECT

POPULATION SERVED : 

612

1987	į A	AVG DAY		5 D	AY BOD		SUSPENDED SOLIDS				TOTAL PHOSPHORUS		
1	1	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
<u> </u>	(10	00 m3/d)	(mg/L	) (mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
   JAN	1	0.137	62.	0 ND			67.0	ND			3.3	ND	
FEB	i	0.235	125.	O ND			103.0	ND			16.3	ND	
MAR	1	0.289	78.	O ND			54.0	ND			2.5	ND	
APR	1	0.338	41.	0 ND			46.0	ND			4.7	ND	
MAY	1	0.372	29.	O ND			36.0	ND			2.6	ND	
JUN	1	0.210	ND	ND			ND	ND			ND	ND	
JUL	1	0.203	32.	O ND			60.0	ND			2.4	ND	
AUG	1	0.188	68.	O ND			52.0	ND			3.7	ND	
SEP	1	ND	ND	ND			ND	ND			ND	ND	
OCT	1	ND	ND	ND			ND	ND			ND	ND	
NOV	1	0.217	73.	O ND			87.0	ND			8.2	ND	
DEC	1	0.269	101.	O ND			71.0	ND			4.9	ND	
	1_		1				1				1		
i AVER	AVERAGE: 0.246		l l 68.	0.0		0.000	   64.0	0.0		0.000	5.4	0.0	0.000
	OBSERVATIONS: 10			0		30000	1 9	0		0.000	1 9	0	0.000
EXCE	EDANC	ES	İ				i				i	₹.	
NO O	NO OF SAMPLES			0			l 13	0			I 13	0	

COMPLIANCE :

CRITERIA :

NOTE :

BOD - NO DISCHARGE SS - NO DISCHARGE

BOD - 30 mg/l

TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS. \* - EXCEEDS EFFLUENT CRITERIA

TP - NO DISCHARGE

SS - 40 mg/l TP - 1.0 mg/l

ND - NO DATA

ANTICIPATED

REMEDIAL MEASURES

START DATE END DATE

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

COMPLIANCE

MUNICIPALITY : RAYSIDE-BALFOUR

PLANT : AZILDA WPCP

WORKS NUMBER : 110001783

TREATMENT : EXTENDED AERATION

PHOSPHORUS REMOVAL - CONTINUOUS

REGION

: NORTHEAST

DISTRICT : SUDBURY OPERATING AUTHORITY : MUNICIPAL

WATERCOURSE

: WHITSON CREEK

MAJOR BASIN

: GREAT LAKES

MINOR BASIN

: LAKE HURON

DESIGN CAPACITY :

2.84 1000 m3

POPULATION SERVED :

4197

IJC DESIGNATION

: INDIRECT

		1				т						
1987	AVG DAY	1	5 DA	Y BOD		SUSPENDED SOLIDS				TOTAL PHOSPHORUS		
ı	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	0.961	1 126.0	15.6		14.992	82.0	5.0		4.805	4.7	0.8	0.769
FEB	1.011	120.0	7.5		7.582	79.0	7.3		7.380	3.4	0.5	0.505
MAR	1.603	92.0	15.2		24.366	91.0	4.7		7.534	4.0	0.4	0.641
APR	2.979	23.0	5.0		14.895	31.0	5.1		15.193	1.2	0.8	2.294
MAY	2.009	57.0	7.5		15.067	42.0	5.8		11.652	3.3	0.7	1.366
JUN	1.659	45.0	5.0		8.295	83.0	4.1		6.802	2.9	0.4	0.630
JUL	1.264	91.0	0.9		1.138	84.0	3.8		4.803	3.9	0.6	0.733
AUG	1.545	90.0	1.4		2.163	77.0	5.2		8.034	3.8	0.5	0.742
SEP	1.907	108.0	1.5		2.861	94.0	6.0		11.442	4.4	0.7	1.316
OCT	1.752	93.0	1.9		ND	88.0	3.7		ND	3.0	0.6	ND
NOV	2.060	90.0	2.3		4.738	74.0	6.5		13.390	4.0	0.6	1.236
DEC	2.428	142.0	2.0		4.856	76.0	4.6		11.169	2.2	0.3	0.728
		1				<u> </u>						
AVERAG	AVERAGE: 1.765		5.5		9.178	   75.0	5.2		9.291	3.4	0.6	0.996
OBSERVATIONS: 12 EXCEEDANCES		12 	12			12 	12			12 	12	
NO OF SAMPLES		22	22			151	152			140	139	
		I								1		1

COMPLIANCE :

CRITERIA :

NOTE :

BOD - YES SS - YES

BOD - 25 mg/l SS - 25 mg/l TP - 1.0 mg/l

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

\* - EXCEEDS EFFLUENT CRITERIA

ND - NO DATA

ANTICIPATED

REMEDIAL MEASURES

TP - YES

START DATE END DATE

COMPLIANCE

MUNICIPALITY : RAYSIDE-BALFOUR REGION : NORTHEAST

PLANT : CHELMSFORD LAGOON DISTRICT : SUDBURY

WORKS NUMBER : 120001176 OPERATING AUTHORITY : MUNICIPAL

TREATMENT : CONVENTIONAL LAGOON SEASONAL WATERCOURSE : MCKENZIE CREEK

MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE HURON

DESIGN CAPACITY: 0.82 1000 m3 IJC DESIGNATION : INDIRECT

POPULATION SERVED: 2697

1987	AV	DAY	1	5 DA	Y BOD		1	SUSPEN	DED SOLI	DS	1	TOTAL PHO	SPHORUS
	F	LOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(100	0 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN		1.120	I ND	ND			ND	ND			ND	ND	
FEB	i	1.067	ND	ND			ND	ND			ND	ND	
MAR	Ì	1.161	ND	ND			ND	ND			ND	ND	
APR	Ì	1.873	ND	23.0			ND	15.1			ND	4.1	
MAY	ĺ	1.531	92.0	21.7			55.0	17.1			5.4	3.2	
JUN	l	1.711	ND	ND			ND	ND			ND	ND	
JUL	ı	1.068	ND	ND			ND	ND			ND	ND	
AUG	l	1.030	ND	ND			ND	ND			ND	ND	
SEP	1	1.474	ND	ND			ND	ND			ND	ND	
OCT	ſ	1.168	96.0	1.9			80.0	1.5			6.0	1.9	
NOV	1	1.522	144.0	13.7			130.0	23.3			6.3	4.9	
DEC	I I	2.200	ND	ND			ND	ND			ND	ND	
AVERAC	GE:	1.410	1 111.0	15.1		24.843	88.0	14.3		22.919	1 5.9	3.5	5.520
OBSER	VATIO	NS:12	3	4			1 3	4			1 3	4	
EXCEE	DANCES	S	i				i				i		
NO OF	SAMP	.ES	1 6	16			6	17			6	18	

COMPLIANCE : CRITERIA : NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

BOD - YES BOD - 30 mg/l TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - YES SS - 40 mg/l \* - EXCEEDS EFFLUENT CRITERIA

TP - YES TP - NONE ND - NO DATA

ANTICIPATED

REMEDIAL MEASURES START DATE END DATE COMPLIANCE

MUNICIPALITY : RAYSIDE-BALFOUR

PLANT : CHELMSFORD WPCP

WORKS NUMBER : 120001568

TREATMENT : EXTENDED AERATION
CONTACT STABILIZATION

PHOSPHORUS REMOVAL-CONTINUOUS

DESIGN CAPACITY :

2.80 1000 m3

POPULATION SERVED: 4352

REGION : NORTHEAST

DISTRICT : SUDBURY

OPERATING AUTHORITY : MUNICIPAL
WATERCOURSE : WHITSON RIVER

MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE HURON

IJC DESIGNATION : INDIRECT

	_												
1987	A\	/G DAY	1	5 DA	Y BOD		1	SUSPEN	DED SOLI	DS		TOTAL P	HOSPHORUS
	F	LOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(100	00 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	l I	2.980	l l 84.0	3.2		9.536	   84.0	6.8		20.264	1 4 6	0.7	2.056
FEB	i	2.442	64.0	9.1		22.222	• 253,000,000	7.1		17.338		1.0	2.369
MAR	i	3.843	106.0	6.6		25.364	•	9.6		36.893		0.6	2.152
APR	i	5.255	344.0	4.1		21.545	Di Printerio America	6.5		34.157	ST or seem	0.5	2.365
MAY	İ	3.636	338.0	2.9		10.544	158.0	7.7		27.997	3.5	0.5	1.745
JUN	ĺ	2.440	35.0	2.2		5.368	110.0	4.9		11.956		0.4	0.854
JUL	1	2.266	57.0	1.4		3.172	73.0	4.7		10.650		0.2	0.363
AUG	1	2.499	53.0	1.9		4.748	75.0	6.0		14.994		0.2	0.600
SEP	l	2.669	119.0	4.0		10.676	150.0	4.4		11.744	2.3	0.2	0.480
OCT	1	2.149	87.0	1.4		3.009	89.0	3.7		7.951	4.8	0.4	0.774
NOV	1	2.710	158.0	4.0		10.840	131.0	4.1		11.111	3.9	0.2	0.542
DEC	1	3.547	106.0	3.6		12.769	146.0	4.0		14.188	4.3	0.2	0.674
			<u> </u>				<u> </u>				1		
AVERA	GE:	3.036	129.0	3.7		11.649	   119.0	5.8		18.270	1 4.1	0.4	1.248
OBSER	VATIO	NS:12	12	12			12	12			12	12	11.240
EXCEE	DANCE	S					ĺ				ĺ		
NO OF	SAMP	PLES	23	23			160	164			158	161	
			l				1				1		

COMPLIANCE :

BOD - YES

REMEDIAL MEASURES

CRITERIA :

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - YES SS - 25 mg/l \* - EXCEEDS EFFLUENT CRITERIA

TP - YES TP - 1.0 mg/L ND - NO DATA

BOD - 25 mg/l

ANTICIPATED

START DATE END DATE

COMPLIANCE

MUNICIPALITY : SAULT STE MARIE REGION : NORTHEAST

PLANT : SAULT STE.MARIE WPCP DISTRICT : SAULT STE. MARIE

WORKS NUMBER: 110000640 OPERATING AUTHORITY: MINISTRY

TREATMENT : PRIMARY WATERCOURSE : ST. MARY'S RIVER

MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE HURON

DESIGN CAPACITY: 54.55 1000 m3 IJC DESIGNATION: DIRECT

POPULATION SERVED: 75000

		T								T		
1987	AVG DAY	ĺ	5 DA	Y BOD		1	SUSPEN	DED SOLI	DS	ĺ	TOTAL PHO	SPHORUS
	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	l 22.564	1 212.0	81.3	62	1834.453	   191.0	38.5	80	868.714	15.4	4.0	90.707
FEB	22.128	1 145.0	65.5	55	1449.384	N onces or	40.5	75	896.184	1 5.8	3.8	84.086
MAR	33.542	225.0	51.8	77	1737.476		31.7	81	1063.281	5.0	2.1	71.109
APR	31.353	199.0	61.7	69	1934.480	191.0	34.2	82	1072.273	5.4	3.0	92.491
MAY	30.546	ND	ND	0	ND	ND	ND	0	ND	ND	ND	ND
JUN	30.390	299.0	81.5	73	2476.785	321.0	52.7	84	1601.553	4.7	5.0	152.558
JUL	34.045	1 142.0	71.5	50	2434.218	128.0	39.3	69	1337.968	1 5.4	4.1	140.26
AUG	37.490	140.0	69.3	50	2598.057	157.0	34.5	78	1293.405	3.8	3.4	127.09
SEP	33.288	172.0	58.1	66	1934.033	165.0	40.0	76	1331.520	4.5	3.2	106.854
OCT	34.732	127.0	68.0	46	2361.776	140.0	46.0	67	1597.672	5.0	3.5	122.25
NOV	39.669	210.0	61.7	71	2447.577	188.0	30.5	84	1209.904	3.9	2.8	111.07
DEC	34.536	152.0 	57.0	62	1968.552	155.0 	39.0	<i>7</i> 5	1346.904	4.3 	2.6	90.484
AVERA	GE: 32.024	   184.0	66.1	62	2106.981	1 179.0	38.8	77	1238.125	1 4.8	3.4	108.089
	VATIONS:12	1 11	11		2.331701	1 11	11	58-38		1 11	11	.30.00
EXCEE	DANCES	i				i				i		
NO OF	SAMPLES	35	36			41	41			38	37	
		1				1				1		

COMPLIANCE: CRITERIA: NOTE:

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

BOD - YES BOD - 30% TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - YES SS - 50% \* - EXCEEDS EFFLUENT CRITERIA

TP - YES TP - NONE ND - NO DATA

ANTICIPATED

REMEDIAL MEASURES START DATE END DATE COMPLIANCE

FINAL DESIGN PHASE 86/09/30 87/01/31

UNDER CONSTRUCTION 87/06/01

MUNICIPALITY : SAULT STE MARIE REGION : NORTHEAST

PLANT : WEST END WPCP IN OP 1986 DISTRICT : SAULT STE. MARIE

WORKS NUMBER: 110002540 OPERATING AUTHORITY: MINISTRY

TREATMENT : CONVENTIONAL ACTIVATED SLUDGE WATERCOURSE : ST MARY'S RIVER

PHOSPHORUS REMOVAL-CONTINUOUS MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE HURON

DESIGN CAPACITY : 18.18 1000 m3 IJC DESIGNATION : DIRECT

POPULATION SERVED : 0

1987	AVG DAY	1	5 DA	Y BOD		1	SUSPEN	DED SOLI	DS	1 1	OTAL PHO	SPHORUS
	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d
JAN	6.567	382.0	18.8		123.460	   251.0	22.5		147.757	   8.5	0.8	5.25
FEB	5.624	241.0	17.1		96.170	187.0	26.7		150.161	6.5	1.2 *	6.46
MAR	8.734	176.0	16.5		144.111	146.0	19.9		173.807	4.2	0.5	3.93
APR	6.510	180.0	7.3		47.523	262.0	2.7		17.577	4.0	0.9	5.92
YAM	6.220	103.0	18.0		111.960	112.0	4.0		24.880	3.4	1.0	5.97
JUN	5.760	82.0	10.2		58.752	87.0	4.4		25.344	2.3	2.1 *	11.86
JUL	6.794	65.0	4.8		32.611	111.0	3.8		25.817	4.4	0.8	5.70
AUG	7.136	101.0	11.4		81.350	88.0	5.0		35.680	2.6	0.7	4.99
SEP	5.138	238.0	9.9		50.866	205.0	7.6		39.049	5.4	0.6	3.28
OCT	6.765	216.0	6.6		44.649	232.0	2.0		13.530	6.2	0.6	4.19
VON	6.001	288.0	6.2		37.206	365.0	2.8		16.803	6.4	0.7	3.96
DEC	8.587 	842.0 	11.0		94.457	511.0 	2.1		18.033	5.2	0.5	3.86
AVERA	GE: 6.653	243.0	11.5		76.926	213.0	8.6		57.370	4.9	0.9	5.45
OBSER	VATIONS:12	12	12			12	12			1 12	12	250635
XCEE	DANCES	1				ĺ				1 20075	2	
O OF	SAMPLES	39	39			47	46			41	43	

COMPLIANCE : CRITERIA : NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

BOD - YES BOD - 25 mg/l TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - YES SS - 25 mg/l \* - EXCEEDS EFFLUENT CRITERIA

TP - NO TP - 1.0 mg/L ND - NO DATA

ANTICIPATED

REMEDIAL MEASURES START DATE END DATE COMPLIANCE

MUNICIPALITY : SMOOTH ROCK FALLS REGION : NORTHEAST PLANT : SMOOTH ROCK FALLS WPCP DISTRICT : TIMMINS WORKS NUMBER : 110002130

OPERATING AUTHORITY : MINISTRY TREATMENT : EXTENDED AERATION WATERCOURSE : MATTAGAMI RIVER

MAJOR BASIN : ARCTIC WATERSHED
MINOR BASIN : JAMES BAY

DESIGN CAPACITY : 1.63 1000 m3 IJC DESIGNATION : NON IJC

POPULATION SERVED: 2251

1987	AVG DAY	1	5 DA	Y BOD		1	SUSPEN	DED SOLI	DS	1 1	TOTAL PHO	SPHORUS
	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d
JAN	1.434	1111.0	5.2		7.457	98.0	7.5		10.755	   5.7	2.2	3.169
FEB	1.765	69.0	4.9		8.649	66.0	5.8		10.237	3.5	1.9	3.42
MAR	2.333	76.0	4.0		9.332	76.0	6.6		15.398	3.2	1.6	3.61
APR	3.041	31.0	1.2		3.649	ND	7.4		22.503	1.8	1.0	3.04
MAY	2.239	46.0	2.6		5.821	40.0	7.2		16.121	2.2	1.7	3.87
JUN	2.012	29.0	2.1		4.225	30.0	8.0		16.096	1.5	1.6	3.21
JUL	2.229	38.0	0.6		1.337	35.0	4.5		10.030	2.7	1.9	4.23
AUG	1.952	18.0	2.2		4.294	20.0	15.5		30.256	1.3	1.8	3.51
SEP	2.079	21.0	0.7		1.455	37.0	1.0		2.079	1.4	1.7	3.43
OCT	3.153	17.0	1.1		3.468	22.0	5.0		15.765	0.9	0.9	2.83
NOV	2.465	78.0	1.2		2.958	122.0	4.5		11.092	2.8	1.7	4.19
DEC	2.040 	74.0 	1.3		2.652	65.0 	4.3		8.772	3.6 	2.0	4.08
AVERA	GE: 2.228	51.0	2.3		4.608	56.0	6.4		14.092	1 2.6	1.7	3.55
	VATIONS: 12 DANCES	12 	12			11 	12		ಾಣಾರ್ಯವಾಗಾವೆ 🤇	12	12	
NO OF	SAMPLES	24	23			23	24			24	23	

COMPLIANCE : CRITERIA : NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

BOD - YES BOD - 25 mg/l TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - YES SS - 25 mg/l \* - EXCEEDS EFFLUENT CRITERIA

TP - YES TP - NONE ND - NO DATA

ANTICIPATED REMEDIAL MEASURES

START DATE END DATE COMPLIANCE

MUNICIPALITY : STURGEON FALLS
PLANT : STURGEON FALLS WPCP

WORKS NUMBER : 110001435

TREATMENT : CONVENTIONAL ACTIVATED SLUDGE

PHOSPHORUS REMOVAL - CONTINUOUS

REGION : NORTHEAST
DISTRICT : NORTH BAY

OPERATING AUTHORITY : MINISTRY

WATERCOURSE : STURGEON RIVER

MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE HURON
IJC DESIGNATION : INDIRECT

DESIGN CAPACITY : 4.54 1000 m3

POPULATION SERVED : 6040

1987	A	VG DAY	I	5 DA	Y BOD		ĺ	SUSPEN	DED SOLI	DS	į i	TOTAL PHO	SPHORUS
	1 1	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(10	00 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN		3.423	73.0	5.9		20.196	   85.0	6.8		23.276	3.8	1.1 *	3.594
FEB	l	2.927	100.0	4.5		13.171	103.0	6.8		19.904	4.4	1.1 *	3.249
MAR	I	4.975	65.0	4.7		23.383	84.0	6.1		30.347	2.9	0.4	1.890
APR	ı	5.727	65.0	4.7		26.917	59.0	4.8		27.490	3.0	0.4	2.17
MAY	1	4.377	74.0	11.0		48.147	60.0	5.6		24.511	3.0	0.5	2.14
JUN	1	3.897	63.0	6.9		26.889	132.0	4.7		18.316	4.1	0.7	2.57
JUL	1	3.331	69.0	12.7		42.304	136.0	5.1		16.988	5.0	0.7	2.46
AUG	1	3.022	79.0	3.5		10.577	96.0	6.0		18.132	4.4	1.4 *	4.20
SEP	1	3.904	73.0	5.3		20.691	108.0	7.7		30.061	4.1	1.0	3.78
OCT	1	4.335	61.0	4.1		17.773	73.0	5.5		23.843	3.6	0.8	3.25
NOV	1	4.650	60.0	2.8		13.020	79.0	4.2		19.530	3.1	0.5	2.37
DEC	 	4.839	65.0 	5.6		27.098	90.0 	4.6		22.259	3.1	0.5	2.17
AVERA	GE:	4.117	71.0	6.0		24.181	92.0	5.7		22.888	3.7	0.7	2.82
OBSER	VATI	ONS:12	12	12			12	12			12	12	537.55
EXCEE	DANC	ES	1				i				İ	3	
NO OF	SAM	PLES	18	18			49	49			1 19	19	

COMPLIANCE :

CRITERIA :

NOTE :

BOD - YES BOD - 25 mg/l SS - YES SS - 25 mg/l TP - NO TP - 1.0 mg/l BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

\* - EXCEEDS EFFLUENT CRITERIA

ND - NO DATA

ANTICIPATED

REMEDIAL MEASURES

START DATE END DATE

COMPLIANCE

CHEMICAL FEED PUMP INSTALLED

MUNICIPALITY: SUDBURY PCP REGION: NORTHEAST PLANT: SUDBURY WPCP DISTRICT: SUDBURY WORKS NUMBER: 110000711 OPERATING AUTHORITY: MUNICIPAL

TREATMENT : HIGH RATE WATERCOURSE : JUNCTION CREEK

MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE HURON

DESIGN CAPACITY: 68.19 1000 m3 IJC DESIGNATION: INDIRECT

POPULATION SERVED: 95000

l .		I				l						
A	VG DAY	1	5 DA	Y BOD		l	SUSPEN	DED SOLI	DS	1 1	TOTAL PHO	SPHORUS
1	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
(10	00 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
l I	45.080	   150.0	18.7		842 006	   104.0	0.2		414 736	1 4 7	2.5	110.897
i	45.190	108.0	24.4				8.7		393.153	3.7	2.6	115.686
i	62.170	107.0	11.2		696.304	84.0	7.6		472.492	4.7	2.6	159.155
1	59.190	51.0	5.0		295.950	92.0	5.0		295.950	2.7	1.7	98.847
1	53.260	102.0	8.8		468.688	114.0	7.2		383.472	4.2	2.3	124.628
1	47.610	86.0	3.8		180.918	108.0	7.7		366.597	4.2	2.3	110.455
ı	43.710	86.0	6.9		301.599	109.0	6.7		292.857	4.1	2.7	118.017
1	42.360	85.0	7.0		296.520	128.0	7.7		326.172	5.3	2.5	105.900
1	43.760	120.0	11.0		481.360	140.0	8.3		363.208	4.5	1.8	76.580
1	46.010	80.0	17.0		782.170	119.0	10.0		460.100	4.2	2.9	132.509
l	46.320	98.0	18.0		833.760	122.0	12.2		565.104	3.5	2.5	115.337
	52.990	114.0 	15.0		794.850	106.0 	9.2		487.508	3.5 	0.8	43.982
GE:	48.971	1 99.0	12.2		589.813	,     111.0	8.3		401.779	1 4-1	2.3	109.333
VATI	ONS:12	1 12	12		2-11-19	12	12		38.181.4 2	12	12	107.333
		22	28			   172	179			39	46	
	(100	45.080 45.190 62.170 59.190 53.260 47.610 43.710 42.360 43.760 46.010 46.320 52.990	FLOW   INF  (1000 m3/d)  (mg/L)   45.080   150.0   45.190   108.0   62.170   107.0   59.190   51.0   53.260   102.0   47.610   86.0   43.710   86.0   42.360   85.0   43.760   120.0   46.010   80.0   46.320   98.0   52.990   114.0   GE: 48.971   99.0   VATIONS:12   12	FLOW   INF EFF   (1000 m3/d)   (mg/L) (mg/L) (mg/L)	FLOW   INF EFF   (1000 m3/d)   (mg/L) (mg/L) (%REM)	FLOW   1NF	FLOW   INF	FLOW   INF   EFF   LOAD   INF   EFF   (1000 m3/d)   (mg/L)   (mg/L)   (%REM)   (kg/d)   (mg/L)   (mg	FLOW   INF	FLOW   INF	FLOW	FLOW   INF

COMPLIANCE : CRITERIA : NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

BOD - YES BOD - 25 mg/l TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - YES SS - 25 mg/l \* - EXCEEDS EFFLUENT CRITERIA

TP - YES TP - NONE ND - NO DATA

ANTICIPATED

REMEDIAL MEASURES START DATE END DATE COMPLIANCE

NEW EQUIPMENT IS BEING INSTALLED 87/06/01 88/01/01

MUNICIPALITY : SUNDRIDGE

PLANT : SUNDRIDGE LAGOON

WORKS NUMBER : 110001961

TREATMENT : CONVENTIONAL LAGOON SEASONAL

PHOSPHORUS REMOVAL - BATCH

REGION DISTRICT : NORTHEAST

OPERATING AUTHORITY : MINISTRY

: NORTH BAY

WATERCOURSE

: BERNARD CREEK

MAJOR BASIN MINOR BASIN

: GREAT LAKES : LAKE HURON

0.65 1000 m3

POPULATION SERVED : 740

DESIGN CAPACITY :

IJC DESIGNATION : INDIRECT

1987	A	VG DAY	I	5 DA	Y BOD		Ī	SUSPEN	DED SOLI	DS	1	TOTAL PHO	SPHORUS
	1	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(10	00 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d
JAN		0.510	   79.0	ND			39.0	ND			8.3	ND	
FEB	Ì	0.480	93.0	ND			53.0	ND			5.2	ND	
MAR	I	0.545	127.0	ND			139.0	ND			4.5	ND	
APR	1	0.785	68.0	ND			48.0	ND			1.9	ND	
MAY	Ī	0.690	88.0	9.5			58.0	22.0			5.0	0.4	
JUN	1	0.653	114.0	8.9			80.0	9.6			7.9	0.7	
JUL	1	0.568	78.0	ND			42.0	ND			1 4.9	ND	
AUG	I	0.576	64.0	ND			45.0	ND			4.8	ND	
SEP	1	0.518	75.0	ND			72.0	ND			5.8	ND	
OCT	1	0.562	86.0	ND			55.0	ND			5.1	ND	
NOV	1	0.568	60.0	4.7			60.0	6.4			3.9	0.3	
DEC	1	0.647	54.0	ND			98.0	ND			4.0	ND	
	<u> </u>						<del> </del>						
AVERA	GE:	0.592	82.0	7.7		5.012	66.0	12.7		8.361	   5.1	0.5	0.32
OBSER Excee		ONS:12 ES	12 	3			12 	3			12 	3	
NO OF	SAM	PLES	18	4			j 17	4			17	4	
NO OF	SAM	PLES	18 	4			17 	4			17 	4	

COMPLIANCE :

CRITERIA :

NOTE :

BOD - YES SS - YES BOD - 30 mg/l

SS - 40 mg/l TP - 1.0 mg/l

TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

\* - EXCEEDS EFFLUENT CRITERIA ND - NO DATA

ANTICIPATED

REMEDIAL MEASURES

TP - YES

START DATE END DATE

COMPLIANCE

DISTRICT MUNICIPALITY : TEMAGAMI : NORTHEAST PLANT : NORTH GOWARD LAGOON : NORTH BAY

WORKS NUMBER : 120000783

TREATMENT : AERATED CELL PLUS LAGOON WATERCOURSE : NET LAKE REGULATED DISCHARGE VOLUME MAJOR BASIN : GREAT LAKES MINOR BASIN : OTTAWA RIVER EFFLUENT POLISHING IJC DESIGNATION : NON IJC

OPERATING AUTHORITY : MUNICIPAL

DESIGN CAPACITY : 0.39 1000 m3

POPULATION SERVED : 350

1987	AV	G DAY	1	5 DA	Y BOD		1	SUSPEN	DED SOLI	DS	1 '	TOTAL PHO	SPHORUS
	F	LOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(100	0 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN		0.122	76.0	3.1		0.378	   75.0	3.1		0.378	   5.5	1.6	0.193
FEB	Ì	0.111	ND	ND		ND	ND	ND		ND	ND	ND	ND
MAR	ı	0.167	ND	ND		ND	ND	ND		ND	ND	ND	ND
APR	1	0.222	ND	ND		ND	ND	ND		ND	ND	ND	ND
MAY	1	0.219	ND	ND		ND	ND	ND		ND	ND	ND	ND
JUN	1	0.163	48.0	1.5		0.245	85.0	1.0		0.163	5.7	1.8	0.293
JUL	ı	0.167	ND	ND		ND	ND	ND		ND	ND	ND	ND
AUG	1	0.129	ND	ND		ND	ND	ND		ND	ND	ND	ND
SEP	1	0.076	ND	ND		ND	ND	ND		ND	ND	ND	ND
OCT	1	0.102	ND	ND		ND	ND	ND		ND	ND	ND	ND
NOV	1	0.059	52.0	2.3		0.136	ND	ND		ND	3.4	ND	ND
DEC	 	0.085	86.0 	3.0		0.255	ND	ND		ND	1.7 	ND	ND
AVERA	GE:	0.135	66.0	2.5		0.254	80.0	2.1		0.271	1 4.1	1.7	0.243
OBSER EXCEE		NS:12	4	4			,   2	2			4	2	2.7-7.0
NO OF			4	4			2	2			2	2	

COMPLIANCE : NOTE : CRITERIA :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

BOD - 30 mg/l SS - 40 mg/l BOD - YES TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - YES \* - EXCEEDS EFFLUENT CRITERIA

ND - NO DATA TP - YES TP - NONE

ANTICIPATED

REMEDIAL MEASURES START DATE END DATE COMPLIANCE

MUNICIPALITY : TEMAGAMI REGION : NORTHEAST
PLANT : TEMAGAMI LAGOON DISTRICT : NORTH BAY

WORKS NUMBER : 110002327 OPERATING AUTHORITY : MINISTRY

TREATMENT : CONVENTIONAL LAGOON SEASONAL WATERCOURSE : SNAKE ISLAND LAKE
PHOSPHORUS REMOVAL - BATCH MAJOR BASIN : GREAT LAKES

MINOR BASIN : OTTAWA RIVER

DESIGN CAPACITY : 0.11 1000 m3 IJC DESIGNATION : NON IJC

POPULATION SERVED: 440

FUNDING UNDER REVIEW

1987	AVG DAY	1	5 DA	Y BOD		1	SUSPEN	DED SOLI	DS	1 :	TOTAL PHO	SPHORUS
	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d
JAN	l   0.042	298.0	ND			1 140.0	ND			9.4	ND	
FEB	0.043	162.0	ND			93.0	ND			6.6	ND	
MAR	0.091	ND	ND			ND	ND			ND	ND	
APR	0.122	250.0	ND			220.0	ND			12.0	ND	
MAY	0.130	155.0	ND			140.0	ND			9.5	ND	
JUN	0.135	102.0	ND			150.0	ND			5.3	ND	
JUL	0.117	155.0	ND			130.0	ND			7.0	ND	
AUG	ND	ND	ND			ND	ND			ND	ND	
SEP	ND	ND	ND			ND	ND			ND	ND	
OCT	ND	ND	ND			ND	ND			ND	ND	
NOV	ND	ND	ND			ND	ND			ND	ND	
DEC	j nd i	ND	ND			ND	ND			ND	ND	
AVERA	GE: 0.097	187.0	0.0		0.000	1 146.0	0.0		0.000	1 8.3	0.0	0.00
	VATIONS: 7 DANCES	6 	0			6 	0			i 6	0	
NO OF	SAMPLES	1 6	0			1 6	0			i 6	0	

COMPLIANCE : CRITERIA : NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

BOD - NO DISCHARGE BOD - 30 mg/l TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - NO DISCHARGE SS - 40 mg/l \* - EXCEEDS EFFLUENT CRITERIA

TP - NO DISCHARGE TP - 1.0 mg/l ND - NO DATA

REMEDIAL MEASURES

START DATE END DATE COMPLIANCE

ENGINEERING STUDY PHASE
FINAL DESIGN PHASE

88/04/01 88/06/30

88/03/31

MUNICIPALITY : THESSALON

PLANT : THESSALON LAGOON

REGION : NORTHEAST DISTRICT : SAULT STE. : SAULT STE. MARIE

WORKS NUMBER : 110002434 OPERATING AUTHORITY : MINISTRY TREATMENT : CONVENTIONAL LAGOON SEASONAL

WATERCOURSE : THESSALON RIVER

MAJOR BASIN MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE HURON
IJC DESIGNATION : INDIRECT : GREAT LAKES

DESIGN CAPACITY : 1.23 1000 m3

POPULATION SERVED: 1600

1987	AVG DAY	1	5 DA	Y BOD		1	SUSPEN	DED SOLI	DS	1 1	TOTAL PHO	SPHORUS
	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	1.070	55.0	ND			50.0	ND			   4.1	ND	
FEB	1.050	190.0	ND			189.0	ND			5.6	ND	
MAR	1.197	46.0	ND			30.0	ND			2.6	ND	
APR	1.234	48.0	13.1			29.0	30.0			2.9	0.9	
MAY	1.125	33.0	ND			25.0	ND			2.0	ND	
JUN	1.142	33.0	ND			40.0	ND			2.6	ND	
JUL	1.180	16.0	ND			35.0	ND			3.0	ND	
AUG	1.242	17.0	ND			40.0	ND			2.5	ND	
SEP	1.199	50.0	ND			100.0	ND			3.0	ND	
OCT	1.206	60.0	ND			70.0	ND			3.4	ND	
NOV	1.270	16.0	ND			25.0	ND			3.8	ND	
DEC	1.340 	52.0 	ND			65.0 	ND			2.4	ND	
AVERAC	GE: 1.188	51.0	13.1		16.165	58.0	30.0		37.020	1 3.2	0.9	1.061
	VATIONS:12 DANCES	1 12	1			12	1			12	1	
	SAMPLES	15	1			1 15	1			   15	1	

COMPLIANCE : CRITERIA : NOTE :

> BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS BOD - YES

BOD - 30 mg/l TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - YES SS - 40 mg/l \* - EXCEEDS EFFLUENT CRITERIA

TP - YES TP - NONE ND - NO DATA

ANTICIPATED REMEDIAL MEASURES

START DATE END DATE COMPLIANCE

MUNICIPALITY: TIMMINS REGION: NORTHEAST
PLANT: BOB'S LAKE LAGOON
DISTRICT: TIMMINS

WORKS NUMBER: 120000275 OPERATING AUTHORITY: MUNICIPAL

MAJOR BASIN : ARCTIC WATERSHED

: BOB'S CK TO PORCUPINE L.

MINOR BASIN : JAMES BAY

WATERCOURSE

DESIGN CAPACITY: 0.07 1000 m3 IJC DESIGNATION: NON IJC

POPULATION SERVED: 170

TREATMENT : CONVENTIONAL LAGOON CONTINUOUS

1987	AVG DAY	1	5 DA	Y BOD		1	SUSPEN	DED SOLI	DS	1	TOTAL PHO	SPHORUS
	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	I ND	1115.0	36.4		ND	1 140.0	37.2		ND	7.2	4.1	ND
FEB	ND	154.0	79.2		ND	238.0	39.2		ND	10.2	5.8	ND
MAR	ND	332.0	74.0		ND	427.0	31.4		ND	12.7	5.9	ND
APR	ND	141.0	32.1		ND	229.0	27.4		ND	3.7	4.7	ND
MAY	ND	80.0	30.9		ND	220.0	33.4		ND	3.6	3.6	ND
JUN	ND	108.0	38.0		ND	160.0	35.0		ND	7.9	3.1	ND
JUL	ND	155.0	22.0		ND	110.0	25.0		ND	8.6	3.0	ND
AUG	ND	84.0	13.0		ND	110.0	20.0		ND	2.9	2.7	ND
SEP	ND	110.0	14.0		ND	190.0	20.0		ND	8.2	3.3	ND
OCT	ND	92.0	15.0		ND	100.0	7.0		ND	1 4.4	3.0	ND
NOV	ND	40.0	15.0		ND	40.0	7.0		ND	3.0	3.3	ND
DEC	ND 	102.0 	31.0		ND	95.0 	10.0		ND	3.9 	3.4	ND
AVERA	GE: 0.000	126.0	33.4 *		0.000	1 172.0	24.4		0.000	1 6.4	3.8	0.000
	VATIONS: 0 DANCES	12 	12			j 12	12			1 12	12	
NO OF	SAMPLES	12	12			1 12	12			12	12	

COMPLIANCE : CRITERIA : NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

BOD - NO BOD - 30 mg/l TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - YES SS - 40 mg/L \* - EXCEEDS EFFLUENT CRITERIA

TP - YES TP - NONE ND - NO DATA

ANTICIPATED

REMEDIAL MEASURES START DATE END DATE COMPLIANCE

FUNDING UNDER REVIEW

FACILITY CLOSED/TRUNK SEWER CONNECTION TO WHITNEY STP

MUNICIPALITY : TIMMINS

TREATMENT : PRIMARY

PLANT : MATTAGAMI WPCP

WORKS NUMBER: 110000766

DISTRICT

OPERATING AUTHORITY : MUNICIPAL

: NORTHEAST

REGION

: TIMMINS

WATERCOURSE

: MATTAGAMI RIVER

MAJOR BASIN

: ARCTIC WATERSHED

MINOR BASIN : JAMES BAY

IJC DESIGNATION : NON IJC

DESIGN CAPACITY : 34.09 1000 m3

POPULATION SERVED : 33000

1987	1 1	AVG DAY	1	5 D	AY BOD		1	SUSPEN	DED SOLI	DS	į :	TOTAL PHO	SPHORUS
	1	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(10	000 m3/d)	(mg/L	) (mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	i	16.500	   56.	0 18.9	66	311.850	   163.0	28.2	83	465.300	l I 7.3	2.2	35.805
FEB	Ì	16.200	68.	0 14.6	79	236.520	208.0	40.8	80		5.8	1.9	30.780
MAR	1	19.100	157.	0 41.0	74	783.100	284.0	3.1	99	59.210		4.1	77.928
APR	1	21.000	77.	36.0	53	756.000	172.0	45.6	73	957.600	1 4.6	1.2	24.360
MAY	1	19.200	67.	38.7	42	743.040	143.0	17.0	88	326.400	5.1	2.7	52.416
JUN	1	19.900	46.	37.7	18	750.230	188.0	31.8	83	632.820	4.3	2.8	54.924
JUL	1	23.500	58.	20.0	66	470.000	109.0	28.0	74	658.000	5.0	1.5	35.250
AUG	1	21.400	56.	11.0	80	235.400	189.0	61.0	68	1305.400	7.1	1.3	27.820
SEP	1	19.100	80.	25.0	69	477.500	158.0	44.8	72	855.680	5.9	1.6	30.560
OCT	1	ND	94.	41.0	56	ND	233.0	41.0	82	ND	6.1	2.3	ND
NOV	1	20.900	ND	ND	0	ND	197.0	44.0	78	919.600	3.8	2.1	43.890
DEC	1	ND	115.	57.0	50	ND	137.0	30.4	78	ND	5.2	2.7	ND
	<u> </u>		l I								<u> </u>		
AVERA	GE:	19.680	80.	31.0	59	529.293	182.0	34.6	80	684.097	5.5	2.2	41.373
OBSER!		ONS:10	11 	11			12 	12			12 	12	
NO OF	SAM	PLES	11	11			51	51			1 12	12	

COMPLIANCE :

CRITERIA :

NOTE :

BOD - YES

BOD - 30%

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - YES

SS - 50%

\* - EXCEEDS EFFLUENT CRITERIA

TP - YES TP - NONE

ND - NO DATA

ANTICIPATED

REMEDIAL MEASURES

START DATE END DATE

COMPLIANCE

MUNICIPALITY : TIMMINS

PLANT : WHITNEY & TISDALE WPCP

WORKS NUMBER : 110001391

TREATMENT : EXTENDED AERATION

REGION

: NORTHEAST

DISTRICT

: TIMMINS

OPERATING AUTHORITY : MUNICIPAL

WATERCOURSE

: PORCUPINE RIVER

MAJOR BASIN

: ARCTIC WATERSHED

MINOR BASIN

: JAMES BAY

DESIGN CAPACITY :

6.81 1000 m3

POPULATION SERVED :

7300

IJC DESIGNATION : NON IJC

1987	A	VG DAY	k P	5 DA	Y BOD		 	SUSPEN	IDED SOLI	DS	 	TOTAL PHO	SPHORUS
	1	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(10	00 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN		2.440	   164.0	15.0		36.600	   188.0	7.5		10 700			
FEB	ŀ	2.430	224.0	15.7		(252) 1020(152)		10 50500		18.300		4.5	10.956
	!					38.151	E convenience	12.9		31.347	S access	4.6	11.154
MAR	!	3.934	196.0	5.4		21.244	126.0	8.2		32.259	7.5	3.0	11.645
APR	1	4.629	145.0	6.5		30.088	79.0	12.9		59.714	4.6	2.5	11.480
MAY	1	3.510	180.0	3.9		13.689	192.0	11.0		38.610	8.0	3.4	11.899
JUN	1	3.526	78.0	1.6		5.642	140.0	7.0		24.682	4.4	2.4	8.462
JUL	1	4.932	68.0	5.8		28.606	100.0	6.0		29.592	5.5	3.3	16.276
AUG	1	4.073	34.0	1.0		4.073	54.0	13.0		52.949	3.1	1.9	7.739
SEP	1	3.886	88.0	1.5		5.829	130.0	20.0		77.720	5.7	3.4	13.212
OCT	1	4.891	68.0	2.2		10.760	70.0	10.0		48.910	4.1	1.9	9.293
NOV	I	3.687	110.0	3.0		11.061	130.0	7.0		25.809	5.3	3.1	11.430
DEC	!	3.394	104.0	15.0		50.910	130.0	8.0		27.152	5.6	3.4	11.540
	l		<u> </u>								1		
AVERA	GE:	3.778	1 122.0	6.4		21.388	l   130.0	10.3		38.920	l I 5.9	3.1	11.257
OBSER	VATIO	ONS:12	12	12			12	12			12	12	11.237
EXCEE	DANCE	ES					l				ì		
NO OF	SAMI	PLES	12	12			12	12			1 12	12	

COMPLIANCE :

CRITERIA :

NOTE :

BOD - YES SS - YES BOD - 25 mg/l

SS - 25 mg/l

\* - EXCEEDS EFFLUENT CRITERIA

TP - YES

TP - NONE

ND - NO DATA

ANTICIPATED

REMEDIAL MEASURES

START DATE END DATE

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

COMPLIANCE

MUNICIPALITY : VAL RITA-HARTY REGION : NORTHEAST DISTRICT : TIMMINS PLANT : HARTY LAGOON WORKS NUMBER: 120003316 OPERATING AUTHORITY : MUNICIPAL

TREATMENT : CONVENTIONAL LAGOON SEASONAL WATERCOURSE : NO NAME CREEK

MAJOR BASIN : ARCTIC WATERSHED
MINOR BASIN : JAMES BAY

IJC DESIGNATION : NON IJC DESIGN CAPACITY : 0.05 1000 m3

POPULATION SERVED: 140

1987	AVO	DAY	1	5 DA	Y BOD		i i	SUSPEN	DED SOLI	DS		TOTAL PHO	SPHORUS
	FL	-OM	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000	) m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d
JAN	1	ND	ND ND	ND			ND	ND			ND	ND	
FEB	I	ND	297.0	ND			204.0	ND			12.2	ND	
MAR	l	ND	ND	ND			ND	ND			ND	ND	
APR	I	ND	75.0	ND			79.0	ND			8.8	ND	
YAP	1	ND	61.0	ND			348.0	ND			5.3	ND	
JUN	1	ND	104.0	ND			141.0	ND			6.4	ND	
JUL	1	ND	110.0	ND			160.0	ND			3.3	ND	
AUG	I	ND	190.0	ND			200.0	ND			4.8	ND	
SEP	1	ND	215.0	ND			230.0	ND			5.9	ND	
OCT	ĺ	ND	74.0	ND			140.0	ND			6.2	ND	
VOV	l	ND	56.0	ND			200.0	ND			8.2	ND	
DEC	l	ND	145.0	ND			130.0	ND			5.8	ND	
	1		<u> </u>			5 5 - E	<u> </u>				1		
VERA	GE:	0.000	1 133.0	0.0		0.000	183.0	0.0		0.000	   6.7	0.0	0.000
BSER	VATIO	ts: 0	10	0			10	0			j 10	0	
XCEE	DANCES	3	1				1				ĺ		
O OF	SAMPL	.ES	10	0			10	0			1 10	0	

COMPLIANCE : CRITERIA : NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

BOD - NO DISCHARGE BOD - 30 mg/l SS - NO DISCHARGE SS - 40 mg/l TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

\* - EXCEEDS EFFLUENT CRITERIA

ND - NO DATA TP - NO DISCHARGE TP - NONE

ANTICIPATED

REMEDIAL MEASURES

START DATE END DATE COMPLIANCE

MUNICIPALITY : VAL RITA-HARTY

REGION

: NORTHEAST

PLANT

: VAL-RITA LAGOON (MUN.1987)

DISTRICT

: TIMMINS

WORKS NUMBER : 110002318

WATERCOURSE

OPERATING AUTHORITY : MUNICIPAL : CREEK TO KAPUSKASING R.

TREATMENT : CONVENTIONAL LAGOON SEASONAL

MAJOR BASIN

: ARCTIC WATERSHED

PHOSPHORUS REMOVAL - BATCH

MINOR BASIN

: JAMES BAY

DESIGN CAPACITY : 0.53 1000 m3

IJC DESIGNATION

: NON IJC

POPUL	ATION	SERVED	: 58	0									
1987	AV	G DAY	l 	5 DA	Y BOD		 	SUSPEN	DED SOLI	DS	] [	TOTAL PHO	SPHORUS
	FI	LOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(100	0 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	 	ND	l I ND	ND			l ND	ND			I ND	ND	
FEB	i	ND	ND ND	ND			i ND	ND			I ND	ND	
MAR	i	ND	ND	ND			ND	ND			ND	ND	
APR	i	ND	ND ND	ND			ND	ND			ND	ND	
MAY	İ	ND	ND ND	5.9			ND	3.0			ND	1.5 *	
JUN	ĺ	ND	ND	ND			ND ND	ND			ND	ND	
JUL	1	ND	ND	ND			ND	ND			ND	ND	
AUG	1	ND	ND	ND			ND	ND			ND	ND	
SEP	1	ND	175.0	ND			380.0	ND			7.3	ND	
OCT	1	ND	140.0	ND			120.0	ND			8.3	ND	
NOV	1	ND	90.0	ND			180.0	ND			26.0	ND	
DEC	1	ND	98.0	ND			140.0	ND			7.0	ND	
	1		1				1				1		
AVERA	GF :	0.000	   126.0	5.9		0.000	205.0	3.0		0.000	112.2	1.5 *	0.000
OBSER			1 4	1		3.000	1 4	1		5.000	1 4	1	0.000
EXCEE			1	A. C.			, , i				1 7	1	
NO OF			4	1			4	1			1 4	1	
			i	•			1				91 ****** 11		

COMPLIANCE :

CRITERIA :

NOTE :

BOD - YES

BOD - 30 mg/l

TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - YES SS - 40 mg/l \* - EXCEEDS EFFLUENT CRITERIA

TP - NO

TP - 1.0 mg/l

ND - NO DATA

ANTICIPATED

REMEDIAL MEASURES

START DATE END DATE

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

COMPLIANCE

REGION District MUNICIPALITY : VALLEY EAST : NORTHEAST PLANT : HAMNER, VAL - CARON, VAL - THERESE WPCP : SUDBURY

WORKS NUMBER: 110001541 OPERATING AUTHORITY : MUNICIPAL

WATERCOURSE TREATMENT : CONVENTIONAL ACTIVATED SLUDGE : VERMILION RIVER

> PHOSPHORUS REMOVAL - CONTINUOUS MAJOR BASIN : GREAT LAKES MINOR BASIN : LAKE HURON

IJC DESIGNATION : INDIRECT DESIGN CAPACITY : 11.36 1000 m3

POPULATION SERVED : 17404

1007	I AVC DAY	!	F 04	v non		1	0110051			! .		
1987	AVG DAY	!		Y BOD	P-27232	l 		DED SOLI		•	TOTAL PHO	
	FLOW	INF	EFF	No. of Contrast of	LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	4.472	   119.0	19.6		87.651	   132.0	4.4		19.677	l l 6.3	1.0	4.606
FEB	4.432	123.0	16.2		71.798	•	3.3		14.626		0.6	2.482
MAR	4.958	83.0	13.8		68.420	165.0	4.3		21.319	6.6	0.6	2.727
APR	5.839	69.0	24.0		140.136	107.0	4.1		23.940	4.1	0.3	1.927
MAY	5.193	147.0	32.8		170.330	122.0	3.3		17.137	5.1	0.4	2.181
JUN	4.380	164.0	13.2		57.816	197.0	5.0		21.900	8.1	0.6	2.453
JUL	3.922	85.0	31.0		121.582	159.0	6.7		26.277	5.4	0.5	2.000
AUG	4.181	113.0	11.7		48.918	141.0	2.2		9.198	5.1	0.4	1.505
SEP	4.661	111.0	5.8		27.034	169.0	6.7		31.229	8.0	0.5	2.517
OCT	4.258	109.0	3.2		13.626	177.0	6.7		28.529	6.9	0.9	3.832
NOV	4.145	108.0	4.7		19.482	186.0	1.1		4.559	5.3	0.6	2.528
DEC	4.435 	180.0 	8.5		37.697	182.0 	2.6		11.531	8.3 	0.6	2.705
AVERA	GE: 4.573	118.0	15.4		72.041	154.0	4.2	-	19.160	1 6.2	0.6	2.622
	VATIONS:12 DANCES	12 	12			12	12			1 12	12	
NO OF	SAMPLES	23	21			168	166			169	166	
		1				1				1		

COMPLIANCE : CRITERIA : NOTE : BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

BOD - YES TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - YES \* - EXCEEDS EFFLUENT CRITERIA

TP - YES

ANTICIPATED REMEDIAL MEASURES START DATE END DATE COMPLIANCE

MUNICIPALITY : WALDEN PLANT : LIVELY WPCP

WORKS NUMBER: 120001185

TREATMENT : EXTENDED AERATION

: NORTHEAST

DISTRICT : SUDBURY OPERATING AUTHORITY : MUNICIPAL

WATERCOURSE

: MEATBIRD CREEK

MAJOR BASIN

: GREAT LAKES

MINOR BASIN : LAKE HURON

DESIGN CAPACITY : 1.59 1000 m3 POPULATION SERVED :

3757

IJC DESIGNATION : INDIRECT

1987	AVG DAY	ı	5 D/	AY BOD		I	SUSPEN	DED SOLI	DS	Ι,	TOTAL PHO	SPHORUS
	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/c	(mg/L	) (mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	1.327	141.	0 7.1		9.422	1 103.0	5.2		6.900	6.6	3.5	4.591
FEB	1.374	75.	0 28.4		39.022	106.0	12.8		17.587	5.6	4.1	5.578
MAR	1.816	50.	0 12.6		22.882	93.0	7.9		14.346	2.9	1.6	2.833
APR	1.633	82.	0 2.8		4.572	105.0	5.2		8.492	3.7	2.4	3.98
MAY	1.309	88.	0 3.6		4.712	120.0	3.8		4.974	5.8	2.6	3.37
JUN	1.313	80.	0 1.4		1.838	112.0	3.6		4.727	5.7	2.7	3.51
JUL	1.052	125.	0.8		0.842	111.0	3.4		3.577	7.3	3.4	3.57
AUG	ND.	NC	ND		ND	ND	ND		ND	ND	ND	ND
SEP	ND ND	NC	ND		ND	ND	ND		ND	ND	ND	ND
OCT	1.189	)   NC	ND		ND	ND	ND		ND	ND	ND	ND
NOV	1.450	132.	0 8.5		12.325	121.0	9.5		13.775	5.7	3.4	4.85
DEC	1.844 	76. 	0 32.0		59.008	138.0 	15.6		28.766	4.7	4.5	8.24
AVERA	GE: 1.431	94.	0 10.8		17.180	112.0	7.4		11.460	   5.3	3.1	4.50
	VATIONS:10 DANCES	S	9			ļ 9 l	9			9	9	
NO OF	SAMPLES	1 17	18			I 122	124			1 17	18	

COMPLIANCE :

CRITERIA :

NOTE :

BOO - YES

BOD - 25 mg/l

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - YES

SS - 25 mg/l

\* - EXCEEDS EFFLUENT CRITERIA

TP - YES

TP - NONE

ND - NO DATA

ANTICIPATED

REMEDIAL MEASURES

START DATE END DATE

COMPLIANCE

MUNICIPALITY : WALDEN

PLANT : MIKKOLA WPCP WORKS NUMBER: 120001531

TREATMENT : EXTENDED AERATION

DISTRICT - NORTHEAST

WATERCOURSE

OPERATING AUTHORITY : MUNICIPAL : JUNCTION CREEK

MAJOR BASIN

: GREAT LAKES

MINOR BASIN : GREAT LAKE

DESIGN CAPACITY :

4.36 1000 m3

POPULATION SERVED :

2693

IJC DESIGNATION : INDIRECT

1987	A	G DAY	l	5 DA	Y BOD		1	SUSPEN	DED SOLI	DS	1	TOTAL PHO	SPHORUS
		FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(100	00 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d
JAN		1.886	63.0	13.9		26.215	l l 85.0	7.2		13.579	1 3.9	3.2	6.03
FEB	Ì	2.139	48.0	9.4		20.107	54.0	10.6		22.673	NEW NEW PORT	2.6	5.540
MAR	ĺ	2.375	34.0	9.8		23.275	44.0	10.3		24.463	J	2.7	6.43
APR	Ì	2.306	39.0	3.7		8.532	46.0	6.4		14.758		1.4	3.11
MAY	Ī	2.753	41.0	5.6		15.417	67.0	9.7		26.704	# C	2.9	7.95
JUN	Ì	1.639	54.0	4.4		7.212	113.0	7.3		11.965	3.8	4.1	6.68
JUL	1	1.360	68.0	26.0		35.360	ā.	7.6		10.336	5.9	3.8	5.10
AUG	1	2.667	71.0	4.2		11.201	99.0	7.2		19.202	4.7	3.9	10.40
SEP	1	3.398	66.0	10.5		35.679	72.0	12.8		43.494	5.0	4.0	13.42
OCT	1	2.789	68.0	8.0		22.312	81.0	10.6		29.563	3.7	3.8	10.59
NOV	1	ND	108.0	4.5		ND	127.0	7.3		ND	5.7	3.9	ND
DEC	 	2.327	72.0 	4.6		10.704	106.0 	8.8		20.478	6.2	3.7	8.49
AVERA	GE:	2.331	61.0	8.7		19.638	88.0	8.8		21.565	1 4.4	3.3	7.617
OBSER EXCEE		ONS:11	12 	12			12 	12			12	12	
NO OF	SAME	PLES	23	23			167	167			23	23	

COMPLIANCE :

CRITERIA :

NOTE :

BOD - YES

800 - 25 mg/l

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

SS - YES SS - 25 mg/l

TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS. \* - EXCEEDS EFFLUENT CRITERIA

TP - YES

TP - NONE

ND - NO DATA

ANTICIPATED

REMEDIAL MEASURES

START DATE END DATE

COMPLIANCE

MUNICIPALITY: WEBBWOOD : NORTHEAST
PLANT: WEBBWOOD LAGOON DISTRICT: SUDBURY
WORKS NUMBER: 110001881 OPERATING AUTHORITY: MINISTRY

TREATMENT : CONVENTIONAL LAGOON SEASONAL WATERCOURSE : GOUGH CREEK

MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE HURON

DESIGN CAPACITY : 0.34 1000 m3 IJC DESIGNATION : INDIRECT

POPULATION SERVED: 460

		I										
1987	AVG DAY	1	5 DA	Y BOD		i	SUSPEN	DED SOLI	DS	]	TOTAL PHO	SPHORUS
	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	0.082	   390.0	ND			83.0	ND			9.6	ND	
FEB	0.079	320.0	ND			170.0	ND			12.9	ND	
MAR	0.079	390.0	ND			92.0	ND			11.5	ND	
APR	0.079	380.0	ND			250.0	ND			23.0	ND	
MAY	0.086	188.0	ND			130.0	ND			13.0	ND	
JUN	0.081	183.0	ND			53.0	ND			8.5	ND	
JUL	0.080	140.0	ND			50.0	ND			10.5	ND	
AUG	0.080	135.0	ND			60.0	ND			8.3	ND	
SEP	0.080	205.0	ND			100.0	ND			9.6	ND	
OCT	0.080	260.0	ND			115.0	ND			9.5	ND	
NOV	0.080	173.0	ND			108.0	ND			9.2	ND	
DEC	0.090	143.0	ND			68.0	ND			8.9	ND	
	<u> </u>	!				1				<u> </u>		
AVERA	GE: 0.081	242.0	0.0		0.000	1 107.0	0.0		0.000	  11.2	0.0	0.00
OBSER	VATIONS:12	1 12	0			12	0			12	0	
EXCEE	DANCES	Ì				ĺ				1		
NO OF	SAMPLES	26	0			26	0			26	0	
		ì				i				1		

COMPLIANCE : CRITERIA : NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

BOD - NO DISCHARGE BOD - 30 mg/l TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - NO DISCHARGE SS - 40 mg/l \* - EXCEEDS EFFLUENT CRITERIA

TP - NO DISCHARGE TP - NONE ND - NO DATA

ANTICIPATED

REMEDIAL MEASURES START DATE END DATE COMPLIANCE

MUNICIPALITY : WHITE RIVER : NORTHEAST

REGION DISTRICT : SAULT STE. MARIE PLANT : WHITE RIVER LAGOON (1987)

WORKS NUMBER : 110002522 OPERATING AUTHORITY : MINISTRY

TREATMENT : CONVENTIONAL LAGOON SEASONAL WATERCOURSE : SMALL CR. TO WHITE RIVER

MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE SUPERIOR

DESIGN CAPACITY : 0.00 1000 m3 IJC DESIGNATION :

POPULATION SERVED: 1000

1987	AV	G DAY	1	5 DA	Y BOD		1	SUSPEN	DED SOLI	DS	1 '	TOTAL PHO	SPHORUS
	F	LOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(100	00 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN		ND	ND	ND			ND	ND			   ND	ND	
FEB	1	ND	ND	ND			ND	ND			ND	ND	
MAR	I	ND	ND	ND			ND	ND			ND	ND	
APR	1	ND	ND	ND			ND	ND			ND	ND	
YAM	1	ND	ND	ND			ND	ND			ND	ND	
JUN	ı	ND	ND	ND			ND	ND			ND	ND	
JUL	1	ND	ND	ND			ND	ND			ND	ND	
NUG	1	ND	ND	ND			ND	ND			ND	ND	
SEP	1	ND	ND	ND			ND	ND			ND	ND	
CT	l	0.340	ND	ND			ND	ND			ND	ND	
IOV	1	ND	ND	ND			ND	ND			ND	ND	
DEC	[	ND	ND	ND			ND	ND			ND	ND	
	<u>'</u>		i i				<b>-</b>				†		
VERA		0.340	0.0	0.0		0.000	5	0.0		0.000	0.0	0.0	0.00
	VATIC DANCE	NS: 1 S	0 	0			0 	0			0 	0	
O OF	SAMP	LES	0	0			j 0	0			i o	0	
			1				58				i		

COMPLIANCE : CRITERIA : NOTE :

> BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS BOD - NO DISCHARGE BOD - 30 mg/L

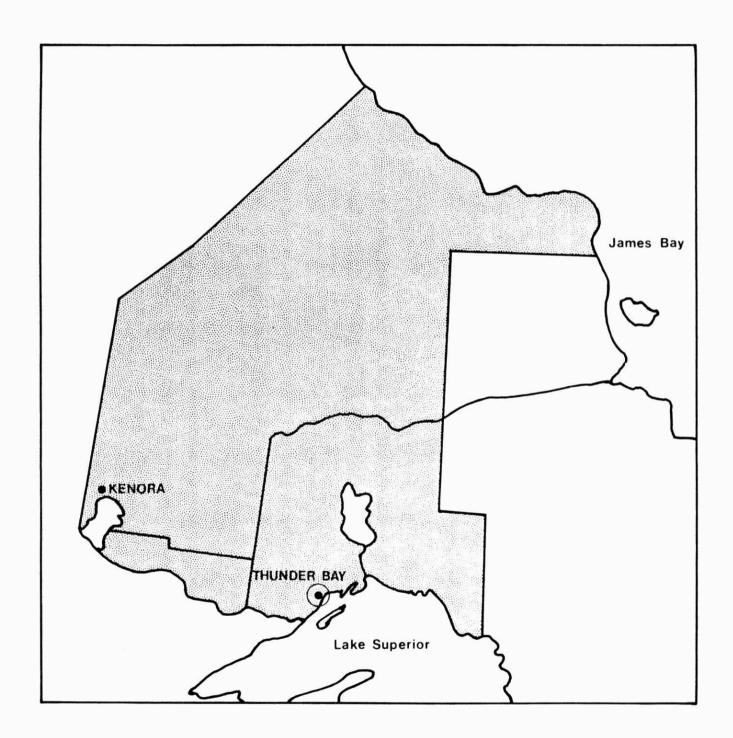
TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - NO DISCHARGE SS - 40 mg/l \* - EXCEEDS EFFLUENT CRITERIA

TP - NO DISCHARGE TP - NONE ND - NO DATA

ANTICIPATED

REMEDIAL MEASURES START DATE END DATE COMPLIANCE



# Northwestern Region Ontario Ministry of the Environment

# REGIONAL OFFICE

Thunder Bay 435 James St. South P.O. Box 5000 P7C 5G8 (807) 475-1205

# DISTRICT OFFICES

Kenora 808 Robertson St. P9N 1X9 (807) 468-5578

Thunder Bay 435 James St. South P.O. Box 5000 P7C 5G8 (807) 475-1315

## NORTHWESTERN SUMMARY - 1987

TREATMENT TYPE		NUMBER		0.0000	DRAULIC LOADING APACITY 1000M3	
	MINISTRY	MUNICIPAL	TOTAL	MINISTRY	MUNICIPAL	TOTAL
Communal Septic Tank	1	0	1	.272	.000	.272 (.060)
Primary	1	3	4	9.092	112.013	121.105 (26.640)
Conventional Activated Sludge	0	1	1	.000	2.273	2.273
Modified Activated Sludge	0	0	0	.000	.000	.000
Contact Stabilization	1	2	3	2.341	25.003	27.344 (6.015)
Extended Aeration	10	2	12	21.770	.604	22.375 (4.922)
Trickling Filter	0	0	0	.000	.000	.000 (.000)
High Rate	0	0	0	.000	.000	.000 (.000)
Oxidation Ditch	0	0	0	.000	.000	.000 (.000)
Aerated Lagoon	0	1	1	.000	1.300	1.300 (.286)
Conventional Lagoon Continuous	0	1	1	.000	1.363	1.363
Conventional Lagoon Seasonal	3	0	3	2.032	000	2.032 (.447)
Conventional Lagoon Annual	0	0	0	.000	.000	.000 (.000)
Lagoon and Spray	0	0	0	.000	.000	.000 (000.)
Aerated Cell Plus Lagoon	0	0	0	.000	.000	.000 000.)
Exfiltration Lagoon	1	0	1	1.363	.000	1.363
TOTALS	17	10	27	36.872 (8.111)	142.558 (31.359)	179.430

103 m/d: THOUSANDS OF CUBIC METRES PER DAY migd: MILLION IMPERIAL GALLONS PER DAY

01307-PDR.49

CONVERSION FACTOR  $10^3 m^3/d = .220 MIGD$ 

MUNICIPALITY : ATIKOKAN PCP REGION : NORTHWEST
PLANT : ATIKOKAN PCP DISTRICT : KENORA
WORKS NUMBER : 110001523 OPERATING AUTHORITY : MINISTRY

TREATMENT : EXTENDED AERATION WATERCOURSE : ATIKOKAN RIVER

PHOSPHORUS REMOVAL-CONTINUOUS MAJOR BASIN : NELSON RIVER BASIN

MINOR BASIN : LAKE WINNEPEG EAST

DESIGN CAPACITY: 4.08 1000 m3 IJC DESIGNATION: NON IJC

POPULATION SERVED: 4500

1987	AVG DAY	1	5 DA	Y BOD		ſ	SUSPEN	DED SOLI	DS	1 1	TOTAL PHO	SPHORUS
	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	   1.710	48.0	3.8		6.498	   72.0	19.6		33.516	3.4	1.1 *	1.881
FEB	2.245	37.0	9.8		22.001	70.0	32.5		72.963	2.5	1.5 *	3.255
MAR	3.330	43.0	2.9		9.657	100.0	17.0		56.610	3.0	0.8	2.498
APR	2.922	61.0	2.2		6.428	97.0	13.0		37.986	3.7	0.7	1.958
MAY	3.023	70.0	3.2		9.674	105.0	7.0		21.161	3.5	0.8	2.267
JUN	2.869	51.0	0.9		2.582	80.0	7.9		22.665	3.0	0.7	2.037
JUL	2.516	36.0	0.6		1.510	52.0	8.0		20.128	2.9	0.5	1.283
AUG	3.834	61.0	0.9		3.451	100.0	9.0		34.506	3.6	0.7	2.530
SEP	2.543	55.0	0.8		2.034	90.0	3.5		8.901	3.3	0.6	1.500
OCT	2.023	73.0	0.8		1.618	110.0	7.5		15.173	3.9	0.8	1.517
NOV	1.956	78.0	1.7		3.325	113.0	10.0		19.560	3.4	0.8	1.526
DEC	1.530 	84.0 	2.7		4.131	140.0 	20.0		30.600	3.5 	1.0	1.530
AVERA	GE: 2.542	T 1 58.0	2.5		6.076	94.0	12.9		31.147	1 3.3	0.8	1.98
	VATIONS:12	1 12	12		0.0.0	1 12	12		J1. 141	I 12	12	1.70
	DANCES	i					W			i	2	
	SAMPLES	27	27			I 26	26			! ! 27	27	

COMPLIANCE : CRITERIA : NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

BOD - YES BOD - 25 mg/l TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - YES SS - 25 mg/l \* - EXCEEDS EFFLUENT CRITERIA

TP - NO TP - 1.0 mg/l ND - NO DATA

ANTICIPATED REMEDIAL MEASURES START DATE END DATE **COMPLIANCE** COLLECTION SYSTEM INPUT MONITORING 95/12/31 COLLECTION SYSTEM DEFICIENCY UNDER STUDY 95/12/31 CONDUCTING TREATABILITY STUDIES 88/01/01 88/03/31 88/03/31 EXISTING EQUIPMENT/OPERATION IS BEING MODIFIED 88/01/01 88/03/31 88/03/31

DISTRICT MUNICIPALITY : ATWOOD : NORTHWEST PLANT : RAINY RIVER LAGOON : KENORA

WORKS NUMBER : 110002292 OPERATING AUTHORITY : MINISTRY

> WATERCOURSE RIVER : RAINY

MAJOR BASIN : NELSON RIVER BASIN MINOR BASIN : LAKE WINNEPEG EAST

IJC DESIGNATION : NON IJC DESIGN CAPACITY : 0.99 1000 m3

POPULATION SERVED: 975

TREATMENT : CONVENTIONAL LAGOON SEASONAL

1987	A	VG DAY	1		5 DA	Y BOD		1	SUSPEN	DED SOLI	DS	1 1	OTAL PHO	SPHORUS
	1	FLOW	IN		EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(10	00 m3/d)	(mg/	/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	! 	0.499	1 197	7.0	ND			   150.0	ND			7.1	ND	
FEB	I	0.521	83	3.0	ND			140.0	ND			4.8	ND	
MAR	1	0.843	57	7.0	ND			75.0	ND			2.3	ND	
APR	1	0.703	63	3.0	12.0			80.0	15.0			3.2	1.4	
MAY	1	0.836	6	7.0	6.2			135.0	8.2			4.3	1.1	
JUN	1	0.626	83	3.0	ND			98.0	ND			5.1	ND	
JUL	1	0.704	60	0.0	ND			232.0	ND			3.4	ND	
AUG	1	0.712	7	5.0	3.9			120.0	7.6			4.3	0.6	
SEP	1	0.616	90	5.0	ND			125.0	ND			4.7	ND	
OCT	1	0.528	11	7.0	2.8			180.0	3.5			5.4	0.3	
NOV	1	0.531	149	9.0	5.6			150.0	5.0			5.8	1.1	
DEC	1	0.506	128 	3.0	ND			105.0 	ND			9.2	ND	
AVERA	GE:	0.635	98	3.0	6.1		4.170	132.0	7.9		5.463	5.0	0.9	0.618
OBSER EXCEE		ONS:12 ES	j '	12	5			12 	5			12	5	
NO OF	SAM	PLES	1 2	26	24			26	24			26	24	

COMPLIANCE : NOTE : CRITERIA :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

BOD - YES BOD - 30 mg/l TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - YES SS - 40 mg/l \* - EXCEEDS EFFLUENT CRITERIA

TP - YES TP - NONE ND - NO DATA

ANTICIPATED

REMEDIAL MEASURES START DATE END DATE COMPLIANCE

MUNICIPALITY : BAIRD

REGION

: NORTHWEST

PLANT : MADSEN COMMUNITY WPCP

DISTRICT

: KENORA

WORKS NUMBER : 110002363

OPERATING AUTHORITY : MINISTRY

: FLAT LAKE

TREATMENT : COMMUNAL SEPTIC TANK

MAJOR BASIN MINOR BASIN

: NELSON RIVER BASIN

: LAKE WINNEPEG EAST

DESIGN CAPACITY : 0.27 1000 m3

IJC DESIGNATION : NON IJC

WATERCOURSE

POPULATION SERVED: 0

POPUL	7	N SEKVED	•		U 									
1987	   A	VG DAY	! ]		5 DA	Y BOD		l 	SUSPEN	DED SOLI	DS	l 	TOTAL PHO	SPHORUS
	1	FLOW	1	NF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
,	(10	00 m3/d)	(m	g/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	İ	0.135		75.0	25.0	67	3.375	   95.0	25.0	74	3.375	   3.9	2.8	0.378
FEB	I	0.134	1	45.0	31.0	31	4.154	117.0	30.0	74	4.020	2.6	3.0	0.402
MAR	1	0.135	1	25.0	43.0	0	5.805	40.0	45.0	0	6.075	1.6	3.0	0.405
APR	1	0.122	1	38.0	42.0	0	5.124	45.0	35.0	22	4.270	2.7	3.2	0.390
MAY	1	0.109	1	84.0	42.0	50	4.578	50.0	32.5	35	3.542	4.9	3.4	0.371
JUN	1	0.104	1	60.0	35.0	42	3.640	35.0	160.0	0	16.640	4.0	4.5	0.468
JUL	1	0.104	1	40.0	86.0	39	8.944	140.0	35.0	75	3.640	6.4	4.3	0.447
AUG	1	0.096	1	ND	ND	0	ND	ND ND	ND	0	ND	ND	ND	ND
SEP	1	0.109	1	28.0	65.0	0	7.085	35.0	1960.0	0	213.640	3.4	7.3	0.796
OCT	1	0.120	1	68.0	46.5	32	5.580	120.0	27.5	77	3.300	3.8	3.2	0.384
NOV	i	0.131	ł	ND	ND	0	ND	ND	ND	0	ND	ND	ND	ND
DEC	1	0.130	1	ND	ND	0	ND	ND	ND	0	ND	ND	ND	ND
AVERA	GE:	0.119	İ	63.0	46.2	44	5.365	75.0	261.1	60	28.722	1 3.7	3.9	0.449
OBSER	VATIO	ONS:12	İ	9	9	-30.5/.		9	9			9	9	0.449
EXCEE			1									1		
NO OF	SAMI	PLES	1	0	0			0	0			0	0	
			1									I		

COMPLIANCE :

CRITERIA :

NOTE :

BOD - YES SS - YES BOD - 30%

SS - 50%

TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

TP - YES

TP - NONE

\* - EXCEEDS EFFLUENT CRITERIA

ND - NO DATA

REMEDIAL MEASURES

START DATE END DATE

ANTICIPATED COMPLIANCE

ENGINEERING STUDY PHASE

FINAL DESIGN PHASE

87/01/01

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

IMPLEMENTING A PLANT PERFORMANCE MONITORING PROGRAM

CONDUCTING TREATABILITY STUDIES

UNDER DISCUSSION WITH MUNICIPALITY

88/01/01 90/12/31

95/01/31

MUNICIPALITY : BEARDMORE REGION : NORTHWEST PLANT : BEARDMORE LAGOON DISTRICT : THUNDER BAY

WORKS NUMBER: 110002309 OPERATING AUTHORITY : MINISTRY

TREATMENT : EXFILTRATION LAGOON : NO DISC.TO SURFACE WATER WATERCOURSE

MAJOR BASIN MINOR BASIN : GREAT LAKES : LAKE SUPERIOR

DESIGN CAPACITY : 1.36 1000 m3 IJC DESIGNATION : INDIRECT

POPULATION SERVED: 625

1987	AV	G DAY	I	5 D	AY BOD		1	SUSPEN	DED SOLI	DS	1	TOTAL PHO	SPHORUS
	F	LOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(100	0 m3/d)	(mg/L	) (mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN		0.158	187.	O ND		ND	135.0	ND		ND	8.4	ND	ND
FEB	1	0.148	121.	0 ND		ND	105.0	ND		ND	8.0	ND	ND
MAR	1	0.163	127.	O ND		ND	160.0	ND		ND	9.1	ND	ND
APR	1	0.216	127.	0 ND		ND	75.0	ND		ND	6.5	ND	ND
MAY	1	0.188	132.	O ND		ND	115.0	ND		ND	6.9	ND	ND
JUN	1	0.170	125.	O ND		ND	140.0	ND		ND	8.0	ND	ND
JUL	1	0.168	102.	O ND		ND	170.0	ND		ND	7.2	ND	ND
AUG	1	0.201	130.	O ND		ND	100.0	ND		ND	7.0	ND	ND
SEP	1	0.181	64.	0 ND		ND	87.0	ND		ND	1 4.2	ND	ND
OCT	1	0.175	113.	O ND		ND	120.0	ND		ND	6.9	ND	ND
NOV	1	0.188	89.	O ND		ND	189.0	ND		ND	5.3	ND	ND
DEC	 	0.197	130.	0 ND		ND	127.0	ND		ND	8.1	ND	ND
AVEDA	· ·	0.170	1				<del> </del>	20.02		3 5255	<del>'</del> —		
AVERA		0.179	121.			0.000	127.0	0.0		0.000	7.1	0.0	0.00
	VAT IO DANCE		12 	0			12 	0			12 	0	
NO OF	SAMP	LES	23	0			23	0			23	0	

COMPLIANCE : CRITERIA : NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

BOD - NO DISCHARGE BOD - 30 mg/l TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

\* - EXCEEDS EFFLUENT CRITERIA

SS - NO DISCHARGE SS - 40 mg/l TP - NO DISCHARGE TP - NONE ND - NO DATA

ANTICIPATED REMEDIAL MEASURES START DATE END DATE COMPLIANCE

MUNICIPALITY : CARAMAT REGION : NORTHWEST PLANT : CARAMAT WPCP DISTRICT : THUNDER BAY

WORKS NUMBER: 120003085 OPERATING AUTHORITY : MUNICIPAL

TREATMENT : EXTENDED AERATION WATERCOURSE : NO DISC.TO SURFACE WATER

EXFILTRATION MAJOR BASIN : ARCTIC WATERSHED

> MINOR BASIN : JAMES BAY

DESIGN CAPACITY : 0.00 1000 m3 IJC DESIGNATION : NON IJC

POPULATION SERVED : 0

	T						T				-T		
1987	į A	VG DAY	İ	5 DA	Y BOD		i	SUSPEN	IDED SOLI	DS	i	TOTAL PHO	SPHORUS
		FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(10	00 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	i	ND	ND	ND		ND	l ND	ND		ND	l ND	ND	ND
FEB	Ì	ND	ND	ND		ND	I ND	ND		ND	l ND	ND	ND
MAR	Ì	ND	ND	ND		ND	ND	ND		ND	I ND	ND	ND
APR	1	ND	ND	ND		ND	ND	ND		ND	ND	ND	ND
MAY	1	ND	ND	ND		ND	ND	ND		ND	ND	ND	ND
JUN	1	ND	ND	ND		ND	ND	ND		ND	ND	ND	ND
JUL	1	ND	ND	ND		ND	ND	ND		ND	ND	ND	ND
AUG	ł	ND	ND	ND		ND	ND	ND		ND	ND	ND	ND
SEP	ı	ND	ND ND	ND		ND	ND	ND		ND	ND	ND	ND
OCT	l	ND	ND	ND		ND	ND	ND		ND	ND	ND	ND
NOV	ı	ND	ND	ND		ND	ND	ND		ND	ND	ND	ND
DEC	1	ND	ND	ND		ND	ND	ND		ND	ND	ND	ND
201	1		1				1				1		
AVERA	GE:	0.000	0.0	0.0		0.000	0.0	0.0		0.000	   0.0	0.0	0.000
	i Establish Ta	ONS: 0	0	0			į o	0		2000.7.7	0	0	0.000
EXCEE		550 2000 2000	1				1				1		
NO OF	SAM	PLES	0	0			1 0	0			0	0	
			1				1				l		

COMPLIANCE : CRITERIA : NOTE :

> BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS BOD - NO DISCHARGE BOD - 25 mg/l TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

\* - EXCEEDS EFFLUENT CRITERIA

SS - NO DISCHARGE SS - 25 mg/l TP - NO DISCHARGE TP - NONE ND - NO DATA

ANTICIPATED REMEDIAL MEASURES START DATE END DATE **COMPLIANCE** 

REMEDIAL MEASURES BEING EVALUATED

DISTRICT MUNICIPALITY : DRYDEN : NORTHWEST PLANT : DRYDEN WPCP : KENORA WORKS NUMBER : 120000248 OPERATING AUTHORITY : MUNICIPAL

TREATMENT : CONTACT STABILIZATION WATERCOURSE : WABIGOON RIVER

MAJOR BASIN : NELSON RIVER BASIN MINOR BASIN : LAKE WINNEPEG EAST

IJC DESIGNATION : NON IJC DESIGN CAPACITY : 6.81 1000 m3

POPULATION SERVED: 6900

1987	AVG	DAY		5 DA	Y BOD		l	SUSPEN	DED SOLI	DS	TOTAL PHOSPHORUS		
	FLO	W	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000	m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d
JAN	3	.440	32.0	11.0		37.840	   40.0	8.0		27.520	2.3	1.5	5.16
EB	3	.234	132.0	20.0		64.680	180.0	8.0		25.872	7.6	0.5	1.7
IAR	4	. 132	31.0	10.0		41.320	30.0	6.0		24.792	3.3	0.5	2.10
APR	3	.692	110.0	20.0		73.840	220.0	10.0		36.920	5.8	0.7	2.6
YAP	3	.914	108.0	23.0		90.022	280.0	7.0		27.398	4.3	0.4	1.4
JUN	1 4	.036	82.0	2.0		8.072	85.0	4.0		16.144	3.7	0.4	1.4
JUL	4	.417	82.0	2.3		10.159	130.0	3.0		13.251	4.3	0.3	1.2
AUG	1 4	.424	66.0	4.4		19.466	120.0	3.0		13.272	3.5	0.6	2.6
SEP	3	.736	58.0	4.4		16.438	85.0	1.0		3.736	3.0	0.4	1.4
OCT	3	.406	88.0	5.2		17.711	110.0	6.0		20.436	5.9	2.1	7.1
NOV	3	. 235	62.0	4.5		14.557	65.0	10.0		32.350	3.8	3.0	9.7
DEC	2	.927	110.0	8.1		23.709	120.0	5.0		14.635	5.2	1.1	3.2
		-	<del> </del>				l 				1		
AVERA	GE: 3	.716	80.0	9.6		34.818	122.0	5.9		21.361	4.4	1.0	3.3
	VATIONS DANCES	:12	12 	12			12 	12			12 	12	
NO OF	SAMPLE	S	12	12			1 12	12			1 12	12	

COMPLIANCE : CRITERIA : NOTE :

> BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS BOD - YES TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

BOD - 25 mg/l SS - 25 mg/l SS - YES SS - 25 mg/l \* - EXCEEDS EFFLUENT CRITERIA

TP - YES TP - NONE ND - NO DATA

ANTICIPATED REMEDIAL MEASURES START DATE END DATE COMPLIANCE

REGION : NORTHWEST DISTRICT : KENORA MUNICIPALITY : EAR FALLS PLANT : EAR FALLS WPCP OPERATING AUTHORITY : MINISTRY WORKS NUMBER : 110001006 WATERCOURSE : ENGLISH RIVER TREATMENT : EXTENDED AERATION

MAJOR BASIN : NELSON RIVER BASIN
MINOR BASIN : LAKE WINNEPEG EAST
IJC DESIGNATION : NON IJC CONVERTIBLE OPERATING MODE

DESIGN CAPACITY : 2.86 1000 m3

POPULATION SERVED : 1750

1987	AVG DAY	i	5 DA	Y BOD		İ	SUSPEN	DED SOLI	DS	1 1	TOTAL PHO	SPHORUS
	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	l   1.263	   30.0	1.0		1.263	l   275.0	9.0		11.367	   2.9	0.4	0.530
FEB	1.239	65.0	1.6		1.982	145.0	12.5		15.488	4.1	0.5	0.620
MAR	1.259	59.0	7.2		9.065	110.0	90.0		113.310	3.2	3.2	4.029
APR	1.255	51.0	5.1		6.400	100.0	70.0		87.850	3.3	2.5	3.137
MAY	1.278	135.0	1.3		1.661	125.0	7.5		9.585	3.4	0.4	0.562
JUN	1.274	52.0	0.9		1.147	115.0	5.5		7.007	2.1	0.3	0.420
JUL	1.304	75.0	0.7		0.913	95.0	5.0		6.520	3.7	0.4	0.548
AUG	1.262	64.0	0.8		1.010	207.0	5.3		6.689	3.6	0.6	0.707
SEP	1.252	55.0	0.9		1.127	140.0	5.5		6.886	5.0	0.7	0.839
OCT	1.242	93.0	0.8		0.994	255.0	7.5		9.315	4.8	0.5	0.658
NOV	1.229	81.0	2.7		3.318	117.0	23.3		28.636	3.6	1.1	1.303
DEC	1.234	107.0	2.1		2.591	225.0 	8.5		10.489	4.7 	0.5	0.580
AVERA	GE: 1.258	72.0	2.1		2.623	1 159.0	20.8	-	26.095	1 3.7	0.9	1.161
OBSER	VATIONS:12	12	12		<del></del>	12	12			12	12	
	DANCES SAMPLES	25	25			   25	25			25	53	

NOTE : CRITERIA : COMPLIANCE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

BOD - YES SS - YES BOD - 25 mg/l SS - 25 mg/l TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

\* - EXCEEDS EFFLUENT CRITERIA

TP - NONE ND - NO DATA TP - YES

ANTICIPATED START DATE END DATE COMPLIANCE REMEDIAL MEASURES

MUNICIPALITY : EMO REGION : NORTHWEST
PLANT : EMO LAGOON DISTRICT : KENORA

WORKS NUMBER : 110001015 OPERATING AUTHORITY : MINISTRY
TREATMENT : CONVENTIONAL LAGOON SEASONAL WATERCOURSE : RAINY RIVER

MAJOR BASIN : NELSON RIVER BASIN
MINOR BASIN : LAKE WINNEPEG EAST

DESIGN CAPACITY : 0.27 1000 m3 IJC DESIGNATION : NON IJC

POPULATION SERVED: 750

1987	A	VG DAY	Ì	5 DA	Y BOD		ĺ	SUSPEN	DED SOLI	DS	i i	TOTAL PHO	SPHORUS
	i i	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(10	00 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	1	0.398	116.0	ND			   160.0	ND			6.2	ND	
FEB	1	0.409	14.0	ND			45.0	ND			0.6	ND	
MAR	l	0.456	56.0	ND			100.0	ND			4.4	ND	
APR	l	0.424	161.0	ND			260.0	ND			7.0	ND	
MAY	1	0.471	76.0	13.8			100.0	16.3			5.3	1.8	
JUN	1	0.459	40.0	ND			105.0	ND			5.0	ND	
JUL	1	0.486	76.0	ND			225.0	ND			4.8	ND	
AUG	1	0.499	86.0	ND			120.0	ND			5.5	ND	
SEP	1	0.437	122.0	ND			165.0	ND			7.3	ND	
OCT	1	0.421	99.0	ND			98.0	ND			5.4	ND	
NOV	1	0.434	90.0	5.8			155.0	3.3			3.6	1.3	
DEC	! !	0.407	105.0 	9.9			155.0 	8.3			5.8 	1.6	
AVERA	GE:	0.442	87.0	9.8		4.349	   141.0	9.3		4.162	   5.1	1.6	0.68
OBSER Excee		ONS:12 Es	12 	3			12 	3			12 	3	
NO OF	SAM	PLES	12	3			12	3			12	3	

COMPLIANCE : CRITERIA : NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

BOD - YES BOD - 30 mg/L TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - YES SS - 40 mg/l \* - EXCEEDS EFFLUENT CRITERIA

TP - YES TP - NONE ND - NO DATA

REMEDIAL MEASURES

START DATE END DATE COMPLIANCE

FUNDING UNDER REVIEW

UNDER CONSTRUCTION

88/01/01 89/12/31

COLLECTION SYSTEM DEFICIENCY UNDER STUDY

88/01/01 87/12/31

SEWER REPLACEMENT UNDERWAY

ANTICIPATED COMPLIANCE

88/01/01 89/12/31

MUNICIPALITY : FORT FRANCES
PLANT : FORT FRANCES WPCP

WORKS NUMBER : 110000258
TREATMENT : PRIMARY

REGION : NORTHWEST
DISTRICT : KENORA
OPERATING AUTHORITY : MINISTRY
WATERCOURSE : RAINY RIVER

MAJOR BASIN : NELSON RIVER BASIN
MINOR BASIN : LAKE WINNEPEG EAST

DESIGN CAPACITY: 9.09 1000 m3 IJC DESIGNATION: NON IJC

POPULATION SERVED: 8750

1987	A	VG DAY	1	5 DA	Y BOD		1	SUSPEN	DED SOLI	DS	] 1	OTAL PHO	SPHORUS
	1	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(10	00 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d
JAN	 	5.300	   92.0	49.0	47	259.700	   320.0	48.0	85	254.400	1 4.7	3.7	19.61
FEB	i	5.500	75.0	57.0	24		125.0	58.0	54	319.000	1 4.0	3.5	19.25
MAR	i	5.900	57.0	39.0	32	230.100		60.0	57		1 3.4	3.0	17.70
APR	ĺ	6.200	23.0	41.0	-78	254.200	108.0	60.0	44		6.8	1.3	8.06
MAY	1	6.700	62.0	55.0	11	368.500	113.0	63.0	44	422.100	3.2	3.4	22.78
JUN	1	6.700	73.0	47.0	36	314.900	125.0	60.0	52	402.000	3.6	2.9	19.43
JUL	1	7.200	42.0	43.0	-2	309.600	88.0	70.0	20	504.000	7.2	2.6	18.72
AUG	1	9.500	45.0	32.0	29	304.000	117.0	52.0	56	494.000	2.8	1.9	18.05
SEP	1	7.800	52.0	39.0	25	304.200	130.0	48.0	63	374.400	2.9	2.2	17.16
OCT	1	7.000	102.0	46.0	55	322.000	180.0	380.0	***	2660.000	3.7	2.6	18.20
NOV	1	6.700	74.0	55.0	26	368.500	165.0	58.0	65	388.600	3.7	2.7	18.09
DEC	1	6.100	70.0 	51.0	27	311.100	93.0 	43.0	54	262.300	3.2	2.5	15.25
AVERA	GE:	6.717	64.0	46.2	31	305.025	142.0	83.3	54	567.233	1 4.1	2.7	17.69
OBSER EXCEE		ONS:12 ES	12 	12			12	12	-7/	33	1 12	12	
NO OF			1 12	12			12	12			   11	12	

COMPLIANCE : CRITERIA : NOTE :

BOD - YES BOD - 30% SS - YES SS - 50% TP - YES TP - NONE BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

\* - EXCEEDS EFFLUENT CRITERIA

ND - NO DATA

ANTICIPATED REMEDIAL MEASURES START DATE END DATE COMPLIANCE UNDER DISCUSSION WITH MUNICIPALITY 86/01/01 95/12/31 ENGINEERING STUDY PHASE 88/01/01 95/12/31 COLLECTION SYSTEM INPUT MONITORING 95/12/31 86/01/01 COLLECTION SYSTEM DEFICIENCY UNDER STUDY 88/01/01 95/12/31 FUNDING UNDER REVIEW 1995

MUNICIPALITY : GERALDTON REGION : NORTHWEST PLANT : GERALDTON WPCP DISTRICT : THUNDER BAY

WORKS NUMBER : 110001649 OPERATING AUTHORITY : MINISTRY

TREATMENT : EXTENDED AERATION WATERCOURSE : LAKE KENOGAMISIS MAJOR BASIN : ARCTIC WATERSHED

> MINOR BASIN : JAMES BAY

DESIGN CAPACITY : 1.81 1000 m3 IJC DESIGNATION : NON IJC

POPULATION SERVED : 2901

1987	AVO	DAY	1	5 DA	Y BOD		I	SUSPEN	DED SOLI	DS	j 1	TOTAL PHO	SPHORUS
	FL	OW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000	m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	i	1.131	77.0	2.6		2.941	   105.0	3.5		3.958	1 4.6	2.6	2.941
FEB	1	1.145	71.0	2.8		3.206	115.0	4.5		5.152	\$1 see	2.6	2.977
MAR	1	1.629	52.0	2.6		4.235	95.0	5.0		8.145	4.5	2.1	3.42
APR	1	2.042	72.0	2.0		4.084	97.0	5.0		10.210	4.1	1.7	3.47
MAY	1	1.889	75.0	2.1		3.967	110.0	4.0		7.556	5.3	1.7	3.21
JUN	1	1.566	54.0	2.2		3.445	76.0	4.6		7.204	3.5	1.8	2.86
JUL	1	1.719	74.0	1.5		2.579	125.0	2.5		4.298	5.6	1.9	3.26
AUG	1	1.627	92.0	4.3		6.996	160.0	7.0		11.389	5.8	1.9	3.09
SEP	1	1.578	80.0	2.1		3.314	140.0	1.0		1.578	5.1	2.1	3.23
OCT	1	2.708	64.0	1.2		3.250	115.0	3.0		8.124	4.1	1.6	4.33
NOV	1	2.604	82.0	1.7		4.427	133.0	3.8		9.895	4.1	1.9	4.81
DEC	1	2.247	149.0 	1.9		4.269	121.0 	3.7		8.314	5.3	2.3	5.05
AVERA	GE:	1.824	78.0	2.3		3.893	116.0	4.0		7.152	1 4.8	2.0	3.55
	VATION DANCES		12	12			12 	12			12	12	5.33
NO OF	SAMPL	LES	24	22			33	31			24	22	

COMPLIANCE : CRITERIA : NOTE :

> BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS BOD - YES BOD - 25 mg/l TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

\* - EXCEEDS EFFLUENT CRITERIA SS - 25 mg/l

TP . YES TP - NONE ND - NO DATA

ANTICIPATED REMEDIAL MEASURES START DATE END DATE COMPLIANCE

COLLECTION SYSTEM DEFICIENCY UNDER STUDY 87/11/01 88/03/31 89/12/31

MUNICIPALITY : GOLDEN

REGION

: NORTHWEST

PLANT

: BALMERTOWN WPCP

DISTRICT

: KENORA

WORKS NUMBER : 110003291

TREATMENT : EXTENDED AERATION

OFERALING A

OPERATING AUTHORITY : MINISTRY

WATERCOURSE

: BALMER CREEK

MAJOR BASIN

: NELSON RIVER BASIN

MINOR BASIN

: LAKE WINNEPEG EAST

DESIGN CAPACITY :

1.22 1000 m3

IJC DESIGNATION

: NON IJC

POPULATION SERVED :

1300

1987 | AVG DAY 5 DAY BOD SUSPENDED SOLIDS TOTAL PHOSPHORUS FLOW EFF INF INF LOAD INF EFF LOAD FFF LOAD |(1000 m3/d) |(mg/L) (mg/L) (%REM) (kg/d) (mg/L) (mg/L) (%REM) (kg/d) (mg/L) (mg/L) (kg/d) | JAN | 1.144 | 62.0 9.3 10.639 | 70.0 17.5 20.020 | 0.4 3.5 3.947 | | FEB | 1.531 | 74.0 9.5 9.9 15.157 | 243.0 14.544 | 1.1 2.0 3.062 | MAR 1.505 | 67.0 4.8 7.224 | 90.0 7.6 11.438 | 5.0 1.9 2.859 1.134 | 75.0 7.9 8.959 | 82.0 APR 8.5 9.639 | 0.4 2.0 2.211 | 18.580 | 100.0 MAY 0.929 | 124.0 20.0 7.0 6.503 | 5.4 3.2 2.973 | JUN 0.883 | 82.0 1.7 1.501 | 85.0 1.5 1.325 | 5.6 3.0 2.605 0.820 | 125.0 4.838 | 125.0 5.9 JUL | 3.5 2.870 | 6.1 2.8 2.296 | AUG 0.745 | 120.0 3.7 2.756 | 108.0 23.0 17.135 | 7.3 3.4 2.533 | 0.709 | 118.0 SEP | 5.3 3.758 | 110.0 4.0 2.836 | 7.2 3.7 2.623 | 0.775 | 100.0 9.0 OCT | 2.9 2.248 | 70.0 6.975 | 4.2 3.5 2.712 | 0.887 | 130.0 NOV 3.5 3.105 | 103.0 5.3 4.701 | 6.1 2.5 2.218 1.038 | 92.0 DEC | 7.8 8.096 | 67.0 7.0 7.266 | 4.4 2.1 2.180 | ı | AVERAGE: 1.008 | 97.0 7.238 | 104.0 6.9 8.771 | 4.4 8.6 2.8 2.685 OBSERVATIONS:12 | 12 12 1 12 12 | 12 12

COMPLIANCE :

| EXCEEDANCES | NO OF SAMPLES

CRITERIA:

26

26

NOTE :

26

BOD - YES

TP - YES

BOD - 25 mg/l

TP - NONE

SS - 25 mg/l

TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

\* - EXCEEDS EFFLUENT CRITERIA

ND - NO DATA

26

ANTICIPATED

REMEDIAL MEASURES

START DATE END DATE

26

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

ı

26

COMPLIANCE

MUNICIPALITY : GOLDEN REGION : NORTHWEST PLANT : COCHENOUR LAGOON DISTRICT : KENORA

WORKS NUMBER : 110002504 OPERATING AUTHORITY : MINISTRY TREATMENT : CONVENTIONAL LAGOON SEASONAL WATERCOURSE : RED LAKE

MAJOR BASIN MINOR BASIN : NELSON RIVER BASIN : LAKE WINNEPEG EAST

DESIGN CAPACITY : 0.76 1000 m3 IJC DESIGNATION : NON IJC

POPULATION SERVED: 800

1987	AV	G DAY	1	5 DA	Y BOD		1	SUSPEN	DED SOLI	DS	1	TOTAL PHO	SPHORUS
	F	LOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(100	00 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d
JAN	İ	0.445	ND	ND			ND	ND			ND	ND	
FEB	1	0.511	ND	ND			ND	ND			ND	ND	
MAR	1	0.570	ND	ND			ND	ND			ND	ND	
APR	1	0.454	12.0	11.0			10.0	15.0			0.9	1.8	
MAY	1	0.288	106.0	ND			220.0	ND			6.9	ND	
JUN	1	0.260	12.0	ND			20.0	ND			ND	ND	
JUL	1	0.279	ND	ND			ND	ND			ND	ND	
AUG	1	0.265	ND	1.0			ND	5.0			ND	0.2	
SEP	1	0.857	ND ND	0.9			ND	7.7			ND	0.2	
OCT	1	0.619	41.0	0.6			90.0	1.0			3.0	1.5	
NOV	ı	0.460	35.0	0.6			35.0	5.0			ND	1.4	
DEC	1	0.405	ND	ND			ND	ND			ND	ND	
AVERA	re.	0.451	1 41.0	2.8		4 775	75.0			7.574	İ.,		
		O.431	1 41.0	2.0 5		1.335		6.7		3.531		1.0	0.52
EXCEE			,	3			5	5			3 	5	
NO OF	SAME	PLES	5	7			5	7			1 3	7	

COMPLIANCE : CRITERIA : NOTE :

> BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS BOD - YES

BOD - 30 mg/l TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - YES SS - 40 mg/l \* - EXCEEDS EFFLUENT CRITERIA

TP - YES TP - NONE ND - NO DATA

ANTICIPATED REMEDIAL MEASURES

START DATE END DATE **COMPLIANCE** 

MUNICIPALITY : IGNACE

REGION

: NORTHWEST

PLANT : IGNACE WPCP

DISTRICT

: KENORA

WORKS NUMBER : 110001355

OPERATING AUTHORITY : MINISTRY

: AGIMAC CREEK

TREATMENT

: EXTENDED AERATION

WATERCOURSE MAJOR BASIN

: NELSON RIVER BASIN

PHOSPHORUS REMOVAL - CONTINUOUS

MINOR BASIN

: LAKE WINNEPEG EAST

DESIGN CAPACITY :

2.49 1000 m3

IJC DESIGNATION

: NON IJC

POPULATION SERVED : 2285

1987	AV	G DAY		5 D	AY BOD		1	SUSPEN	DED SOLI	DS	1 .	TOTAL PHO	SPHORUS
	F	LOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(100	0 m3/d)	(mg/L	) (mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	1	1.120	91.	0 2.9		3.248	1 120.0	15.0		16.800	5.2	0.6	0.638
FEB	Ì	1.190	94.	0 3.4		3.805	122.0	12.5		13.988	5.4	0.5	0.559
MAR	ĺ	1.087	82.	0 4.8		5.218	98.0	9.0		9.783	5.7	0.6	0.630
APR	1	0.998	80.	0 3.4		3.393	110.0	7.0		6.986	5.0	0.5	0.499
MAY	1	0.995	128.	0 5.8		5.249	185.0	10.0		9.050	6.8	0.6	0.525
JUN	1	1.051	91.	0 3.0		3.153	143.0	6.7		7.042	4.1	0.5	0.483
JUL	1	1.041	116.	0 3.0		3.123	270.0	7.0		7.287	8.0	0.6	0.604
AUG	1	1.047	95	0 2.6		2.722	131.0	11.0		11.517	5.5	0.7	0.754
SEP	1	1.085	110.	0 4.8		5.208	305.0	8.0		8.680	5.7	0.7	0.792
OCT	1	1.024	84	0 1.8		1.843	135.0	12.5		12.800	5.5	0.8	0.860
NOV	1	0.982	111.	0 3.2		3.142	130.0	12.0		11.784	4.8	0.8	0.746
DEC	 	1.071	138. 	0 4.1		4.391	363.0 	13.0		13.923	6.4 	0.9	0.953
AVERA	GE:	1.058	102	0 3.6		3.708	176.0	10.3		10.803	5.7	0.6	0.670
	VAT 10		1a 	12			12 	12			12 	12	
NO OF	SAMP	LES	20	26			26	26			1 26	26	

COMPLIANCE :

CRITERIA :

NOTE :

BOD - YES SS - YES

TP - YES

BOD - 25 mg/l

TP - 1.0 mg/l

SS - 25 mg/l

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

\* - EXCEEDS EFFLUENT CRITERIA

ND - NO DATA

REMEDIAL MEASURES

START DATE END DATE

ANTICIPATED COMPLIANCE

MUNICIPALITY: KENORA REGION: NORTHWEST PLANT: KENORA WPCP DISTRICT: KENORA

WORKS NUMBER : 120000239 OPERATING AUTHORITY : MUNICIPAL
TREATMENT : CONTACT STABILIZATION WATERCOURSE : WINNIPEG RIVER

MAJOR BASIN : NELSON RIVER BASIN

MINOR BASIN : LAKE WINNEPEG EAST

DESIGN CAPACITY : 18.18 1000 m3 IJC DESIGNATION : NON IJC

POPULATION SERVED : 12000

	The state of the s	The Addition of the Addition o				т						
1987	AVG DAY	i	5 DA	Y BOD		! 	SUSPEN	DED SOLI	DS	Ì	TOTAL PHO	SPHORUS
	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	   12.151	140.0	16.0		194.416	   150.0	15.0		182.265	5.8	0.7	8.506
FEB	11.551	78.0	21.0		242.571	120.0	15.0		173.265	4.8	0.8	8.663
MAR	10.937	60.0	16.0		174.992	100.0	15.0		164.055	3.1	0.6	6.781
APR	10.718	104.0	13.0		139.334	130.0	ND		ND	4.4	ND	ND
MAY	8.302	50.0	20.0		166.040	110.0	9.0		74.718	2.3	0.4	3.155
JUN	9.845	125.0	6.0		59.070	170.0	10.0		98.450	6.1	1.0	9.353
JUL	8.999	108.0	10.0		89.990	150.0	10.0		89.990	5.8	1.2	10.799
AUG	9.417	94.0	22.0		207.174	210.0	15.0		141.255	6.9	1.2	11.300
SEP	8.266	84.0	8.0		66.128	100.0	9.0		74.394	5.1	1.1	9.093
OCT	8.266	115.0	ND		ND	180.0	10.0		82.660	6.2	0.9	7.274
NOV	10.175	114.0	10.0		101.750	160.0	ND		ND	4.7	0.8	7.631
DEC	8.255 	116.0 	13.2		108.966	110.0 	7.0		57.785	ND	ND	ND
AVERA	GE: 9.740	1 99.0	14.1		140.948	141.0	11.5		113.884	1 5.0	0.9	8.256
OBSER	VATIONS:12	12	11			12	10		5 . 6 6 4	11	10	3.230
	DANCES SAMPLES	   12	10			   12	10			   11	10	

COMPLIANCE : CRITERIA : NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

BOD - YES BOD - 25 mg/l TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - YES SS - 25 mg/l \* - EXCEEDS EFFLUENT CRITERIA

TP - YES TP - NONE ND - NO DATA

ANTICIPATED

REMEDIAL MEASURES START DATE END DATE COMPLIANCE

MUNICIPALITY : LONGLAC REGION : NORTHWEST
PLANT : LONGLAC WPCP DISTRICT : THUNDER BAY
WORKS NUMBER : 110001042 OPERATING AUTHORITY : MINISTRY

TREATMENT : CONTACT STABILIZATION WATERCOURSE : MAKING GROUND RIVER

MAJOR BASIN : ARCTIC WATERSHED
MINOR BASIN : JAMES BAY

DESIGN CAPACITY : 2.34 1000 m3 IJC DESIGNATION : NON IJC

POPULATION SERVED : 2900

1987	AVG DAY	1	5 DA	Y BOD		1	SUSPEN	DED SOLI	DS	1 1	TOTAL PHO	SPHORUS
	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	l   1.344	1115.0	2.7		3.629	l   255.0	5.0		6.720	7.5	0.9	1.183
FEB	1.253	169.0	4.9		6.140	240.0	5.5		6.891	8.7	0.6	0.714
MAR	1.776	184.0	8.5		15.096	200.0	6.0		10.656	9.5	0.5	0.924
APR	1.820	85.0	6.1		11.102	123.0	13.0		23.660	4.5	0.5	0.983
MAY	2.198	74.0	7.0		15.386	125.0	15.0		32.970	4.3	0.7	1.451
JUN	1.938	131.0	13.6		26.357	240.0	14.0		27.132	7.2	0.6	1.240
JUL	1.739	79.0	6.6		11.477	138.0	17.5		30.433	6.7	0.9	1.565
AUG	1.730	95.0	8.8		15.224	108.0	11.0		19.030	6.0	1.0	1.730
SEP	1.992	95.0	3.1		6.175	125.0	2.0		3.984	6.7	0.6	1.096
OCT	2.611	53.0	2.8		7.311	93.0	6.0		15.666	3.4	0.6	1.567
NOV	1.970	119.0	2.6		5.229	130.0	5.5		11.061	4.2	1.1	2.132
DEC	] 1.772 	107.0 	6.5		11.518	115.0 	5.5		9.746	5.9 	0.5	0.868
AVERA	GE: 1.845	1 109.0	6.1		11.220	158.0	8.8		16.496	6.2	0.7	1.288
	VATIONS:12	12 	12			12 	12			12 	12	
NO OF	SAMPLES	25	25			25	25			25	25	

COMPLIANCE : CRITERIA : NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

BOD - YES BOD - 25 mg/l TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - YES SS - 25 mg/l \* - EXCEEDS EFFLUENT CRITERIA

TP - YES TP - NONE ND - NO DATA

REMEDIAL MEASURES

START DATE

END DATE

COMPLIANCE

ENGINEERING STUDY PHASE

INFILTRATION PROBLEMS ARE BEING CORRECTED

PHASING OUT EXISTING FACILITIES

ANTICIPATED

COMPLIANCE

87/05/01 87/12/31

88/12/31

PHASING OUT EXISTING FACILITIES

MUNICIPALITY : MANITOUWADGE

REGION

: NORTHWEST

PLANT : MANITOUWADGE LAGOON

DISTRICT

: THUNDER BAY

WORKS NUMBER : 120001988

WATERCOURSE

OPERATING AUTHORITY : MUNICIPAL : RUDDER LAKE

TREATMENT : AERATED LAGOON

MAJOR BASIN

: GREAT LAKES

CONTINUOUS DISCHARGE

MINOR BASIN

: LAKE SUPERIOR

DESIGN CAPACITY : 1.30 1000 m3

:

POPULATION SERVED: 4513

IJC DESIGNATION

1987	AVG DAY	1	5 DA	Y BOD		1	SUSPEN	DED SOLI	DS	1	TOTAL PHO	SPHORUS
	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	2.216	33.0	20.0		44.320	25.0	20.0		44.320	   1.1	3.8	8.421
FEB	2.106	96.0	26.0		54.756	340.0	25.0		52.650	7.2	3.9	8.213
MAR	2.424	88.0	32.0		77.568	110.0	25.0		60.600	7.0	4.2	10.181
APR	2.802	51.0	18.0		50.436	80.0	20.0		56.040	4.6	3.4	9.527
MAY	2.436	78.0	14.0		34.104	60.0	20.0		48.720	0.9	2.9	8.780
JUN	2.426	96.0	15.0		29.148	110.0	25.0		36.435	6.5	3.6	8.502
JUL	2.438	105.0	12.0		26.840	130.0	15.0		17.080	5.7	3.5	7.320
AUG	2.517	50.0	11.0		17.633	85.0	7.0		37.785	3.4	3.0	7.557
SEP	2.447	72.0	7.0		16.660	85.0	15.0		14.700	3.9	3.0	7.105
OCT	2.729	96.0	6.8		35.516	110.0	6.0		27.320	5.3	2.9	8.196
NOV	2.829	92.0	13.0		31.152	130.0	10.0		14.160	4.6	3.0	8.213
DEC	2.848 	150.0 	11.0		42.765	130.0 	5.0		22.808	5.3 	2.9	9.123
AVERA	GE: 2.518	1 84.0	15.5		38.408	   116.0	16.1		36.051	1 4.6	3.3	8.428
OBSER	VATIONS: 12	12 	12		22.400	1 12	12		33.031	12 	12	3.420
NO OF	SAMPLES	1 12	12			12	12			12	12	

COMPLIANCE :

CRITERIA:

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - YES

BOD - 30 mg/l SS - 40 mg/l

\* - EXCEEDS EFFLUENT CRITERIA

TP - NO

BOD - YES

TP - NONE

ND - NO DATA

ANTICIPATED

REMEDIAL MEASURES

START DATE END DATE

COMPLIANCE

MUNICIPALITY : MARATHON : MORTHWEST
PLANT : MARATHON WPCP : MORTHWEST : THUNDER BAY

WORKS NUMBER: 120000471 OPERATING AUTHORITY: MINISTRY
TREATMENT: EXTENDED AERATION WATERCOURSE: LAKE SUPE

WATERCOURSE : LAKE SUPERIOR
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE SUPERIOR

DESIGN CAPACITY : 4.40 1000 m3 IJC DESIGNATION : DIRECT

POPULATION SERVED : 5000

1987	A۱	G DAY	1	5 DA	Y BOD		1	SUSPEN	DED SOLI	DS	1	OTAL PHO	SPHORUS
	F	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(100	00 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN		1.088	1 126.0	1.6		1.741	   150.0	4.0		4.352	7.3	3.8	4.134
FEB	l	1.164	95.0	1.4		1.630	335.0	5.0		5.820	5.7	3.9	4.540
MAR	1	1.214	95.0	2.6		3.156	118.0	6.5		7.891	5.9	3.8	4.553
APR	1	1.228	66.0	2.1		2.579	98.0	7.0		8.596	5.2	3.8	4.666
MAY	1	0.996	120.0	1.7		1.693	150.0	3.0		2.988	8.0	4.9	4.88
JUN	ı	0.997	108.0	1.8		1.795	123.0	2.3		2.293	7.0	4.6	4.58
JUL	1	1.064	107.0	1.1		1.170	107.0	2.0		2.128	7.2	5.3	5.58
AUG	1	0.972	130.0	2.0		1.944	160.0	2.5		2.430	6.9	4.7	4.52
SEP	1	1.028	144.0	3.4		3.495	160.0	2.5		2.570	7.5	5.1	5.19
OCT	1	1.146	140.0	2.8		3.209	175.0	3.5		4.011	6.8	5.4	6.18
NOV	1	1.303	115.0	3.0		3.909	133.0	5.7		7.427	5.5	5.0	6.51
DEC	 	1.353	100.0 	5.4		7.306	110.0 	5.0		6.765	5.0 	3.5	4.73
AVERA	GE:	1.129	112.0	2.4		2.802	152.0	4.1		4.773	1 6.5	4.5	5.008
OBSER'		ONS:12	12 	12			12	12		25.2 (	12	12	
NO OF	SAMP	LES	22	22			22	22			22	22	

COMPLIANCE : CRITERIA : NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

BOD - YES BOD - 25 mg/l TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

BOD - YES BOD - 25 mg/l TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - YES SS - 25 mg/l \* - EXCEEDS EFFLUENT CRITERIA

TP - YES TP - NONE ND - NO DATA

REMEDIAL MEASURES START DATE END DATE COMPLIANCE

WORKS NUMBER: 110003308 OPERATING AUTHORITY: MINISTRY

TREATMENT : EXTENDED AERATION WATERCOURSE : BALKAM CREEK

CONVERTIBLE OPERATING MODE MAJOR BASIN : ARCTIC WATERSHED

MINOR BASIN : JAMES BAY

DESIGN CAPACITY : 0.37 1000 m3 IJC DESIGNATION : NON IJC

POPULATION SERVED: 750

1987	AVG DAY	1	5 DA	Y BOD		1	SUSPEN	DED SOLI	DS	1 1	TOTAL PHO	SPHORUS
	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	0.446	58.0	10.3		4.625	   90.0	8.5		3.817	3.2	3.0	1.347
FEB	0.421	46.0	3.8		1.600	70.0	6.0		2.526	3.8	2.1	0.863
MAR	0.447	117.0	3.2		1.430	180.0	5.5		2.458	6.2	1.5	0.670
APR	0.500	57.0	3.0		1.450	67.0	5.0		2.500	3.4	0.5	0.22
MAY	0.523	160.0	1.7		0.889	120.0	3.0		1.569	2.4	0.3	0.16
JUN	0.458	54.0	1.6		0.733	75.0	4.0		1.832	2.8	0.3	0.14
JUL	0.357	88.0	1.2		0.428	120.0	2.0		0.714	0.6	0.5	0.17
AUG	0.350	114.0	0.7		0.245	183.0	4.0		1.400	6.6	1.0	0.33
SEP	0.374	89.0	1.1		0.411	145.0	1.5		0.561	4.1	0.6	0.20
OCT	0.505	50.0	1.5		0.758	120.0	7.0		3.535	3.7	0.9	0.44
NOV	0.431	60.0	1.7		0.733	65.0	8.5		3.663	2.9	0.7	0.28
DEC	0.362 	108.0 	3.0		1.086	143.0 	16.5		5.973	5.1 	0.9	0.34
AVERA	GE: 0.431	83.0	2.7		1.199	115.0	6.0		2.546	3.7	1.0	0.43
	VATIONS:12 DANCES	12 	12			12 	12			12 	12	
NO OF	SAMPLES	22	23			23	23			24	23	

COMPLIANCE : CRITERIA : NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

BOD - YES BOD - 25 mg/l TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - YES SS - 25 mg/l \* - EXCEEDS EFFLUENT CRITERIA

TP - YES TP - NONE ND - NO DATA

REMEDIAL MEASURES ANTICIPATED

START DATE END DATE COMPLIANCE

DISTRICT MUNICIPALITY : NIPIGON : NORTHWEST PLANT : NIPIGON WPCP : THUNDER BAY WORKS NUMBER : 120000514 OPERATING AUTHORITY : MUNICIPAL TREATMENT : PRIMARY WATERCOURSE : NIPIGON RIVER

MAJOR BASIN : GREAT LAKES MINOR BASIN : LAKE SUPERIOR

IJC DESIGNATION : DIRECT DESIGN CAPACITY : 1.63 1000 m3

POPULATION SERVED : 2180

	Ţ .	T	***************************************			1				1		
1987	AVG DAY	1	5 DA	Y BOD		1	SUSPEN	DED SOLI	DS	1	TOTAL PHO	SPHORUS
	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
	1 2 242	70.0			100 710	1 400 0				Ţ		
JAN	2.219	70.0	90.0	0	199.710		35.0	71	77.665		4.4	9.764
FEB	1.822	84.0	46.0	45	83.812	130.0	55.0	58	100.210	6.2	4.3	7.835
MAR	2.074	108.0	49.0	55	101.626	160.0	50.0	68	104.944	5.2	4.1	8.503
APR	2.060	108.0	49.0	55	100.940	160.0	50.0	69	103.000	5.2	4.1	8.446
MAY	1.730	90.0	33.0	63	57.090	180.0	50.0	72	86.500	3.8	1.9	3.287
JUN	1.730	115.0	52.0	55	89.960	170.0	60.0	65	103.800	7.7	4.8	8.304
JUL	2.005	94.0	27.0	71	54.135	120.0	30.0	75	60.150	6.1	3.6	7.218
AUG	2.090	94.0	40.0	57	83.600	160.0	15.0	91	31.350	5.3	3.3	6.897
SEP	2.074	195.0	62.0	68	128.588	320.0	30.0	91	62.220	13.0	3.9	8.089
OCT	2.205	110.0	63.0	43	138.915	110.0	45.0	59	99.225	4.6	4.4	9.702
NOV	2.831	110.0	51.0	54	144.381	110.0	35.0	68	99.085	4.5	3.8	10.758
DEC	I ND	96.0 	53.0	45	ND	120.0 	45.0	62	ND	5.6	4.2	ND
AVERA	GE: 2.076	106.0	51.3	56	107.523	155.0	41.7	71	84.377	6.1	3.9	8.073
	VATIONS:11 DANCES	j 12	12			12 	12			12	12	
NO OF	SAMPLES	12	12			1 12	12			12	12	
		1				1				I		

COMPLIANCE : CRITERIA : NOTE :

> BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS BOD - YES

BOD - 30% TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - YES ss - 50% \* - EXCEEDS EFFLUENT CRITERIA

TP - YES TP - NONE ND - NO DATA

ANTICIPATED

REMEDIAL MEASURES START DATE END DATE COMPLIANCE

MUNICIPALITY : PICKLE LAKE

PLANT : PICKLE LAKE WPCP

TREATMENT : EXTENDED AERATION

WORKS NUMBER : 110002185

REGION

: NORTHWEST

DISTRICT

: THUNDER BAY OPERATING AUTHORITY : MINISTRY

WATERCOURSE

: KAWINOGANS RIVER

MAJOR BASIN

: ARCTIC WATERSHED

MINOR BASIN

: JAMES BAY

IJC DESIGNATION

: NON IJC

DESIGN CAPACITY : 0.90 1000 m3

	T	I territoria due ni-di-colo	1						-		T		
1987	AVO	DAY	i	5 DA	Y BOD		i	SUSPEN	DED SOLI	DS	į i	TOTAL PHO	SPHORUS
	FL	OW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000	m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	1	0.237	30.0	2.0		0.474	58.0	12.0		2.844	l   1.3	2.0	0.474
FEB	i	0.174	24.0	4.7		0.818	30.0	5.0		0.870	1.0	2.1	0.365
MAR	ì	0.185	17.0	0.7		0.130	30.0	3.5		0.647	0.8	2.1	0.379
APR	İ	0.251	17.0	0.7		0.176	40.0	1.5		0.377	1.4	1.4	0.351
MAY	i	0.279	21.0	0.8		0.223	35.0	1.5		0.419	1.1	1.8	0.502
JUN	İ	0.359	17.0	1.4		0.503	32.0	1.5		0.538	0.8	1.9	0.682
JUL	ĺ	0.361	24.0	1.0		0.361	44.0	2.0		0.722	1.3	1.7	0.614
AUG	Ì	0.332	28.0	1.1		0.365	70.0	3.0		0.996	1.2	1.6	0.581
SEP	İ	0.284	19.0	1.1		0.312	25.0	1.0		0.284	1.0	1.9	0.540
OCT	ĺ	0.206	18.0	1.2		0.247	45.0	3.5		0.721	0.9	1.7	0.350
NOV	Ì	0.223	41.0	1.5		0.335	55.0	5.0		1.226	1.9	1.7	0.379
DEC	i I	0.280	<b>39.</b> 0	1.5		0.420	48.0 	3.6		1.008	1.4	1.4	0.392
AVERA	NGE:	0.264	25.0	1.5		0.364	43.0	3.6		0.888	   1.2	1.8	0.467
	DANCE:		12 	12			12 	12			12 	12	
NO OF	SAMP	LES	23	22			23	22			23	22	

COMPLIANCE :

CRITERIA :

NOTE :

BOD - YES

BOD - 25 mg/l

SS - YES TP - YES SS - 25 mg/l

TP - NONE

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

1

\* - EXCEEDS EFFLUENT CRITERIA

ND - NO DATA

REMEDIAL MEASURES

START DATE END DATE

ANTICIPATED COMPLIANCE

MUNICIPALITY: RED LAKE REGION: NORTHWEST
PLANT: RED LAKE WPCP
DISTRICT: KENORA
WORKS NUMBER: 110001131
OPERATING AUTHORITY: MINISTRY
TREATMENT: EXTENDED AERATION
WATERCOURSE: HOWEY BAY

MAJOR BASIN : NELSON RIVER BASIN

MINOR BASIN : LAKE WINNEPEG EAST

DESIGN CAPACITY : 2.46 1000 m3 IJC DESIGNATION : NON IJC

POPULATION SERVED: 1945

1987	AVG DAY	1	5 DA	Y BOD		1	SUSPEN	DED SOLI	DS	1 1	TOTAL PHO	SPHORUS
	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d
JAN	1.491	89.0	2.5		3.728	1 105.0	7.5		11.183	4.4	1.9	2.758
FEB	1.677	82.0	4.6		7.714	108.0	12.5		20.963	4.3	2.0	3.35
MAR	1.825	83.0	7.6		13.870	157.0	7.0		12.775	4.6	1.6	2.920
APR	1.884	69.0	7.2		13.565	92.0	5.5		10.362	3.6	1.9	3.58
MAY	1.593	85.0	5.7		9.080	117.0	7.0		11.151	4.9	1.9	2.94
JUN	1.460	57.0	2.0		2.920	87.0	8.5		12.410	4.1	2.1	3.11
JUL	1.743	96.0	2.7		4.706	82.0	4.5		7.844	4.5	2.3	4.00
AUG	1.749	88.0	2.1		3.673	133.0	11.0		19.239	5.3	2.2	3.84
SEP	1.506	244.0	2.0		3.012	92.0	5.5		8.283	5.1	2.4	3.61
OCT	1.432	86.0	1.1		1.575	105.0	5.5		7.876	4.9	2.3	3.29
NOV	1.510	112.0	7.6		11.476	138.0	7.3		11.023	5.4	2.4	3.62
DEC	1.756 	67.0 	3.2		5.619	82.0 	5.0		8.780	4.3 	2.0	3.42
AVERA	GE: 1.636	96.0	4.0		6.745	108.0	7.2		11.824	1 4.6	2.1	3.37
	VATIONS:12 DANCES	12 	12			12 	12			12	12	
NO OF	SAMPLES	28	28			28	28			1 28	28	

COMPLIANCE : CRITERIA : NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

BOD - YES BOD - 25 mg/l TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - YES SS - 25 mg/l \* - EXCEEDS EFFLUENT CRITERIA

TP - YES TP - NONE ND - NO DATA

REMEDIAL MEASURES ANTICIPATED

START DATE END DATE COMPLIANCE

MUNICIPALITY : RED ROCK PLANT : RED ROCK WPCP WORKS NUMBER : 120001817

TREATMENT : PRIMARY

REGION DISTRICT : NORTHWEST : THUNDER BAY

OPERATING AUTHORITY : MUNICIPAL WATERCOURSE : NIPIGON BAY

MAJOR BASIN

: GREAT LAKES

MINOR BASIN

: LAKE SUPERIOR

POPULATION SERVED : 1150

DESIGN CAPACITY : 1.27 1000 m3

IJC DESIGNATION : DIRECT

1987	AVG DAY	1	5 DA	Y BOD			SUSPEN	DED SOLI	DS	1 1	TOTAL PHO	SPHORUS
	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	0.670	70.0	24.0	66	16.080	   100.0	20.0	80	13.400	   5.1	2.5	1.675
FEB	0.748	140.0	36.0	74	26.928	250.0	25.0	90	18.700	9.0	3.8	2.842
MAR	0.708	64.0	27.0	58	19.116	110.0	25.0	77	17.700	5.1	3.0	2.124
APR	0.827	70.0	38.0	46	31.426	110.0	34.0	69	28.118	4.1	3.1	2.564
MAY	0.781	42.0	37.0	12	28.897	110.0	15.0	86	11.715	2.1	2.9	2.26
JUN	0.756	175.0	54.0	69	40.824	330.0	15.0	95	11.340	5.5	3.0	2.26
JUL	0.775	34.0	35.0	0	27.125	130.0	18.0	86	13.950	3.4	3.1	2.40
AUG	0.662	72.0	38.0	47	25.156	85.0	15.0	82	9.930	3.6	2.4	1.58
SEP	0.681	98.0	39.0	60	26.559	150.0	25.0	83	17.025	4.7	2.6	1.77
OCT	0.860	72.0	46.0	36	39.560	80.0	35.0	56	30.100	5.4	3.0	2.58
NOV	0.822	66.0	48.0	27	39.456	90.0	40.0	56	32.880	3.9	3.1	2.54
DEC	0.648	78.0 	43.0	45	27.864	75.0	50.0	33	32.400	3.8 	3.8	2.46
AVERA	GE: 0.745	1 82.0	38.8	49	29.083	135.0	26.4	74	19.771	1 4.6	3.0	2.25
OBSER	EVATIONS: 12	1 12	12			12	12	***	##### *V#I	1 12	12	
	SAMPLES	1 12	12			1 12	12			1 12	12	

COMPLIANCE :

CRITERIA :

NOTE :

BOD - YES BOD - 30% SS - YES SS - 50% TP - YES TP - NONE

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

\* - EXCEEDS EFFLUENT CRITERIA

ND - NO DATA

ANTICIPATED

REMEDIAL MEASURES

START DATE END DATE

COMPLIANCE

MUNICIPALITY : SCHREIBER REGION : NORTHWEST DISTRICT PLANT : SCHREIBER WPCP : THUNDER BAY WORKS NUMBER : 110002112

OPERATING AUTHORITY : MINISTRY

CONTACT STABILIZATION MAJOR BASIN : GREAT LAKES MINOR BASIN : LAKE SUPERIOR CONVERTIBLE OPERATING MODE

WATERCOURSE : CREEK TO L.SUPERIOR

IJC DESIGNATION : DIRECT DESIGN CAPACITY : 1.13 1000 m3

POPULATION SERVED: 1937

TREATMENT : EXTENDED AERATION

1987	AVG DAY	l	5 DA	Y BOD		1	SUSPEN	DED SOLI	DS	1 1	OTAL PHO	SPHORUS
	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	   0.689	126.0	46.0		31.694	   195.0	77.5		53.397	5.4	4.4	3.032
FEB	0.650	112.0	30.0		19.500	135.0	28.0		18.200	7.7	3.0	1.950
MAR	0.531	157.0	22.0		11.682	190.0	27.5		14.603	7.5	3.9	2.071
APR	0.676	123.0	14.0		9.464	155.0	35.0		23.660	7.9	4.0	2.704
MAY	0.595	128.0	18.0		10.710	135.0	30.0		17.850	8.8	4.6	2.737
JUN	0.625	133.0	14.0		8.750	140.0	19.5		12.188	6.8	4.7	2.906
JUL	0.678	109.0	42.5		28.815	145.0	32.5		22.035	7.0	3.9	2.64
AUG	0.759	143.0	31.0		23.529	275.0	20.0		15.180	5.0	2.5	1.897
SEP	0.733	107.0	44.0		32.252	115.0	50.0		36.650	5.4	3.0	2.199
OCT	0.640	70.0	12.0		7.680	115.0	10.0		6.400	3.6	0.7	0.448
NOV	0.636	165.0	33.0		20.988	130.0	35.0		22.260	7.6	4.2	2.671
DEC	0.594 	153.0 	34.0		20.196	170.0 	35.0		20.790	6.9 	4.3	2.524
AVERA	GE: 0.651	127.0	28.4 *		18.772	158.0	33.3 *		21.934	6.6	3.6	2.315
	VATIONS:12 DANCES	12 	12			12 	12			12   12	12	
NO OF	SAMPLES	23	23			23	23			23	23	

COMPLIANCE : CRITERIA : NOTE :

BOD - 25 mg/l 25 mg/l BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

BOD - NO TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

SS - NO SS - 25 mg/l \* - EXCEEDS EFFLUENT CRITERIA

TP - YES TP - NONE ND - NO DATA

ANTICIPATED REMEDIAL MEASURES START DATE END DATE COMPLIANCE

ENGINEERING STUDY PHASE 89/10/31 89/12/31 1990

MUNICIPALITY : SIOUX LOOKOUT

: SIOUX LOOKOUT WPCP

REGION : NORTHWEST DISTRICT : KENORA

WORKS NUMBER : 120000220

OPERATING AUTHORITY : MUNICIPAL

WATERCOURSE : PELICAN LAKE

TREATMENT : CONVENTIONAL ACTIVATED SLUDGE

MAJOR BASIN : NELSON RIVER BASIN

MINOR BASIN

: LAKE WINNEPEG EAST

DESIGN CAPACITY : 2.27 1000 m3

POPULATION SERVED :

3006

IJC DESIGNATION : NON IJC

1987	AVG DAY	1	5 DA	Y BOD		1	SUSPEN	DED SOLI	DS	1 7	TOTAL PHO	SPHORUS
	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(1000 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	2.609	215.0	9.2		24.003	   420.0	10.0		26.090	   8.5	3.5	9.132
FEB	2.572	102.0	8.8		22.634	130.0	10.0		25.720	6.0	3.5	9.00
MAR	3.573	112.0	14.0		50.022	120.0	15.0		53.595	5.3	2.9	10.36
APR	3.929	82.0	3.0		11.787	270.0	7.0		27.503	5.0	3.2	12.57
MAY	3.981	105.0	8.5		33.838	98.0	8.0		31.848	4.8	3.4	13.69
JUN	4.217	ND	ND		ND	ND	ND		ND	ND	ND	ND
JUL	3.406	86.0	5.8		19.755	90.0	4.0		13.624	6.1	3.4	11.58
AUG	3.491	100.0	10.0		34.910	80.0	8.0		27.928	5.2	3.3	11.52
SEP	3.698	152.0	21.6		79.877	253.0	14.0		51.772	5.2	3.3	12.05
OCT	3.958	109.0	8.9		35.226	140.0	8.7		34.435	6.1	3.4	13.45
NOV	5.069	150.0	9.2		46.635	160.0	6.0		30.414	5.9	3.3	16.72
DEC	3.657 	175.0 	68.0		248.676	160.0 	40.0		146.280	5.6 	2.5	9.14
AVERA	GE: 3.680	126.0	15.2		55.215	175.0	11.9	******	42.655	5.8	3.2	11.75
	VATIONS:12 DANCES	11 	11			] 11 ]	11			j 11 I	11	8000000
NO OF	SAMPLES	39	39			1 39	39			1 39	39	

COMPLIANCE :

CRITERIA :

NOTE :

BOD - YES

BOD - 25 mg/l

SS - YES TP . YES SS - 25 mg/l TP - NONE

\* - EXCEEDS EFFLUENT CRITERIA

ND - NO DATA

TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

START DATE END DATE

ANTICIPATED COMPLIANCE

FUNDING UNDER REVIEW

REMEDIAL MEASURES

88/01/01

86/01/01

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

90/12/31

ENVIRONMENTAL ASSESSMENT PROCESS

COLLECTION SYSTEM DEFICIENCY UNDER STUDY

1990

FINAL DESIGN PHASE

1990

MUNICIPALITY : TERRACE BAY

PLANT : TERRACE BAY LAGOON

WORKS NUMBER: 120000499

TREATMENT : CONVENTIONAL LAGOON CONTINUOUS

EXFILTRATION LAGOON

REGION

: NORTHWEST

DISTRICT

: THUNDER BAY

OPERATING AUTHORITY : MUNICIPAL

WATERCOURSE MAJOR BASIN

: NO DISC.TO SURFACE WATER : GREAT LAKES

MINOR BASIN

: LAKE SUPERIOR

DESIGN CAPACITY : 0.00 1000 m3

IJC DESIGNATION : DIRECT

POPULATION SERVED: 0

		- OLKVED	·										
1987	1 1987   AVG DAY		5 DAY BOD				SUSPENDED SOLIDS				TOTAL PHOSPHORUS		
	F	LOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(100	0 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	l 	ND	ND	ND		ND	ND	ND		ND	ND	ND	ND
FEB	l	ND	ND	ND		ND	ND	ND		ND	ND	ND	ND
MAR	l	ND	ND	ND		ND	ND	ND		ND	ND	ND	ND
APR	ı	ND	ND	ND		ND	ND	ND		ND	ND	ND	ND
MAY	l	ND	ND	ND		ND	ND	ND		ND	ND	ND	ND
JUN	l	ND	ND	ND		ND	ND	ND		ND	ND	ND	ND
JUL	l	ND	ND	ND		ND	ND	ND		ND	ND	ND	ND
AUG	l	ND	ND	ND		ND	ND	ND		ND	ND	ND	ND
SEP	l	ND	ND	ND		ND	ND	ND		ND	ND	ND	ND
OCT	1	ND	ND	ND		ND	ND	ND		ND	ND	ND	ND
NOV	l	ND	ND	ND		ND	ND	ND		ND	ND	ND	ND
DEC	ļ	ND	ND	ND		ND	ND	ND		ND	ND	ND	ND
	!		<del> </del>			-	<u> </u>		<del></del>		<del> </del>		
AVERA	GE:	0.000	0.0	0.0		0.000	0.0	0.0		0.000	0.0	0.0	0.000
OBSER	VATIO	NS: 0	0	0			0	0			0	0	
EXCEE	DANCE	s	1				1				1		
NO OF	SAMP	LES	0	0			1 0	0			0	0	
			1				1				I		

COMPLIANCE :

CRITERIA :

BOD - NO DISCHARGE BOD - 30 mg/l

NOTE :

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

\* - EXCEEDS EFFLUENT CRITERIA

TP - NO DISCHARGE TP - NONE

SS - NO DISCHARGE SS - 40 mg/l

ND - NO DATA

ANTICIPATED

REMEDIAL MEASURES

START DATE END DATE

COMPLIANCE

MUNICIPALITY: TERRACE BAY REGION
PLANT: TERRACE BAY WPCP DISTRICT

WORKS NUMBER : 120003030

TREATMENT : EXTENDED AERATION

**EXFILTRATION LAGOON** 

REGION : NORTHWEST
DISTRICT : THUNDER BAY
OPERATING AUTHORITY : MUNICIPAL

WATERCOURSE : NO DI

: NO DISC.TO SURFACE WATER

MAJOR BASIN

: GREAT LAKES
: LAKE SUPERIOR

MINOR BASIN

. LAKE OUT EN

IJC DESIGNATION

: INDIRECT

DESIGN CAPACITY : POPULATION SERVED :

0.54 1000 m3 500

SUSPENDED SOLIDS TOTAL PHOSPHORUS 1987 | AVG DAY 5 DAY BOD FLOW INF LOAD INF EFF LOAD INF EFF LOAD |(1000 m3/d) |(mg/L) (mg/L) (%REM) (mg/L) (mg/L) (%REM) (kg/d) (mg/L) (mg/L) (kg/d) (kg/d) 0.107 | 98.0 0.118 | 100.0 JAN 1.1 3.0 0.321 |11.0 3.3 0.353 | 0.139 | 124.0 3.4 0.473 | 150.0 10.0 1.390 | 9.8 0.431 1 FEB 3.1 MAR 0.099 | 68.0 22.0 2.178 | 90.0 7.0 0.693 | 2.9 4.3 0.426 | 0.105 | 120.0 0.273 | 120.0 APR 2.6 10.0 1.050 | 4.2 2.7 0.284 | 0.124 1 130.0 0.223 | 150.0 4.0 0.496 | 10.0 3.2 0.397 | MAY 1.8 0.101 0.848 | 100.0 | 106.0 8.4 20.0 2.020 |11.0 JUN 3.6 0.364 | 1.131 | 80.0 JUL 0.202 | 58.0 5.6 15.0 3.030 | 4.0 3.6 0.727 1 86.0 ND | 180.0 AUG ND 1.5 4.0 ND 1 7.5 2.9 ND ND 66.0 55.0 I SEP 2.6 ND 1.0 ND | 4.8 3.2 ND OCT 0.071 95.0 20.0 1.420 | 150.0 10.0 0.710 | 6.3 2.6 0.185 | 0.065 | 3.2 0.208 | ND 4.0 NOV ND 0.260 | ND 2.5 0.163 | 0.284 | 6.9 0.071 94.0 0.163 | 160.0 DEC 2.3 4.0 2.8 0.199 I 1 95.0 0.704 | 121.0 AVERAGE: 0.108 6.2 7.7 1.025 | 7.1 3.2 0.353 | OBSERVATIONS: 10 11 12 11 12 12 | 11 **EXCEEDANCES** NO OF SAMPLES 11 11 12 12 | 11 12

COMPLIANCE :

CRITERIA :

NOTE :

BOD - YES SS - YES

BOD - 25 mg/l SS - 25 mg/l

TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

\* - EXCEEDS EFFLUENT CRITERIA

TP - YES

TP - NONE

ND - NO DATA

ANTICIPATED

REMEDIAL MEASURES

START DATE END DATE

COMPLIANCE

MUNICIPALITY : THUNDER BAY

PLANT

: THUNDER BAY WPCP

WORKS NUMBER: 120004805

TREATMENT : PRIMARY

PHOSPHORUS REMOVAL - CONTINUOUS

REGION

: NORTHWEST

DISTRICT

: THUNDER BAY

OPERATING AUTHORITY : MUNICIPAL

WATERCOURSE

: KAMINISTIKWIA RIVER

MAJOR BASIN

: GREAT LAKES

MINOR BASIN

: LAKE SUPERIOR

IJC DESIGNATION

: DIRECT

DESIGN CAPACITY : 109.10 1000 m3

POPULATION SERVED : 101527

1987	1 4	VG DAY	1	5 DA	Y BOD		1	SUSPEN	DED SOLI	DS	]	TOTAL PHO	SPHORUS
	1	FLOW	INF	EFF		LOAD	INF	EFF		LOAD	INF	EFF	LOAD
	(10	00 m3/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(%REM)	(kg/d)	(mg/L)	(mg/L)	(kg/d)
JAN	i	74.520	1 197.0	69.7	65	5194.044	I   392.0	60.5	85	4508.460	4.4	1.0	74.520
FEB	1	73.070	236.0	76.8	67	5611.776	553.0	79.5	86	5809.065	4.4	1.0	71.609
MAR	1	73.160	211.0	45.6	78	3336.096	668.0	96.6	86	7067.256	5.3	1.0	76.086
APR	1	71.490	174.0	60.5	65	4325.145	383.0	86.8	77	6205.332	4.9	1.1 *	80.784
MAY	1	78.800	168.0	55.5	67	4373.400	352.0	70.6	80	5563.280	4.8	1.5 *	117.412
JUN	1	81.870	148.0	64.3	57	5264.241	267.0	82.6	69	6762.462	4.8	1.1 *	91.694
JUL	1	88.200	162.0	61.8	62	5450.760	259.0	65.9	75	5812.380	5.1	0.9	77.616
AUG	1	92.190	97.0	30.3	69	2793.357	191.0	57.0	70	5254.830	4.5	0.7	63.611
SEP	1	93.710	152.0	69.0	55	6465.990	282.0	66.3	76	6212.973	3.3	0.9	88.087
OCT	1	86.230	157.0	69.4	56	5984.362	283.0	58.3	79	5027.209	3.4	1.0	86.230
NOV	1	82.220	165.0	43.0	74	3535.460	279.0	63.4	77	5212.748	3.8	1.0	78.931
DEC		77.900	164.0 	47.0	71	3661.300	242.0 	60.4	75	4705.160	3.9 	0.9	68.552
AVERA	GE:	81.113	169.0	57.7	66	4666.328	346.0	70.7	78	5678.430	1 4.4	1.0	81.261
OBSER	VATI	ONS:12	12	12			12	12			1 12	12	
EXCEE	DANC	ES	I				l				ĺ	3	
NO OF	SAM	PLES	40	46			221	284			226	316	

COMPLIANCE :

CRITERIA :

NOTE :

BOD - YES SS - YES BOD - 50%

ss - 70%

TOTAL PHOSPHORUS BASED ON MONTHLY REQUIREMENTS.

TP - NO

TP - 1.0 mg/l

\* - EXCEEDS EFFLUENT CRITERIA

ND - NO DATA

ANTICIPATED

REMEDIAL MEASURES

START DATE END DATE

BOD & SUSPENDED SOLIDS BASED ON ANNUAL AVERAGE REQUIREMENTS

COMPLIANCE

## Index of Appendix B by Municipality

Municipality	Plant Name	Page #
ALEXANDRIA	ALEXANDRIA LAGOON	B-253
ALFRED	ALFRED LAGOON	B-254
ALLISTON	ALLISTON WPCP	B-172
ALMONTE	ALMONTE LAGOON	B-255
ALVINSTON	ALVINSTON WPCP	B-6
AMHERSTBURG	AMHERSTBURG WPCP	B-7
ANDERDON	MCGREGOR LAGOON	B-9
ANDERDON	EDGEWATER BEACH LAGOON	B-8
ANSON HINDON MINDEN	MINDEN WPCP	B-173
ARMSTRONG	EARLTON LAGOON	B-322
ARNPRIOR	ARNPRIOR WPCP	B-256
ARRAN	TARA LAGOON	B-10
ARTHUR	ARTHUR LAGOON	B-113
ASSIGINACK	MANITOWANING LAGOON	B-323
ATIKOKAN	ATIKOKAN WPCP	B-408
ATWOOD	RAINY RIVER LAGOON	B-409
AYLMER	AYLMER LAGOON	B-11
BAIRD	MADSEN COMMUNITY WPCP	B-410
BANCROFT	BANCROFT WPCP	B-257
ARNPRIOR ARRAN ARTHUR ASSIGINACK ATIKOKAN ATWOOD AYLMER BAIRD BANCROFT BARRIE	BARRIE WPCP	B-174
BARRY'S BAY	BARRI'S BAI WPCP	B-258
BATH	BATH WPCP	B-259
BEARDMORE	BEARDMORE LAGOON	B-411
BEETON	BEETON LAGOON	B-175
BELLEVILLE	BELLEVILLE WPCP	B-260 B-12
BELMONT	BELMONT LAGOON CARDIFF LAGOON	B-12 B-176
BICROFT BLACK RIVER MATHESON	MATHESON WPCP	B-326
BLACK RIVER MATHESON BLACK RIVER MATHESON	RAMORE LAGOON	B-320
BLACK RIVER MATHESON BLACK RIVER MATHESON	VAL GAGNE LAGOON	B-328
BLACK RIVER MATHESON	HOLTYRE WPCP	B-324
BLACK RIVER MATHESON	HOLTYRE-ROSS MINE WPCP	B-325
BLANDFORD-BLENHEIM	PLATTSVILLE LAGOON	B-13
BLENHEIM	BLENHEIM LAGOON	B-14
BLIND RIVER	BLIND RIVER WPCP	B-329
BLYTH	BLYTH WPCP	B-15
BOBCAYGEON	BOBCAYGEON WPCP	B-177
BRACEBRIDGE	BRACEBRIDGE WPCP	B-179
BRACEBRIDGE	BRACEBRIDGE LAGOON	B-178
BRADFORD	BRADFORD WPCP	B-180
BRANTFORD	BRANTFORD WPCP	B-115
BRANTFORD	CAINSVILLE LAGOON	B-116
BRANTFORD	AIRPORT WPCP	B-114
BRIGHTON	BRIGHTON LAGOON	B-181
BROCK	LAKE SIMCOE LAGOON (BEAVERTON)	
BROCK	BEAVERTON RIVER 2 LAGOON	B-183
	(CANNINGTON)	
BROCK	BEAVERTON RIVER 1 LAGOON	B-182
E.	(SUNDERLAND)	Yang dinamanan
BROCKVILLE	BROCKVILLE WPCP	B-261
BRUCE MINES	BRUCE MINES LAGOON	B-330
BRUSSELS	BRUSSELS WPCP	B-16
BURK'S FALLS	BURK'S FALLS LAGOON	B-331

BURLINGTON	SKYWAY WPCP VERNER LAGOON GALT WPCP PRESTON WPCP HESPELER WPCP CAMPBELLFORD WPCP CAPREOL LAGOON CARAMAT WPCP	B-185
CALDWELL	VERNER LAGOON	B-332
CAMBRIDGE	GALT WPCP	B-117
CAMBRIDGE	PRESTON WPCP	B-119
CAMBRIDGE	HESPELER WPCP	B-118
CAMPBELLFORD	CAMPBELLFORD WPCP	B-186
CAPREOL	CAPREOL LAGOON	B-333
CARAMAT	CARAMAT WPCP	B-412
CARLETON PLACE	CARLETON PLACE WPCP	B-262
CASEY	BELLE VALLEE LAGOON	B-334
CASIMIR J.A.	ST. CHARLES LAGOON	B-335
CASSELMAN	CASSELMAN LAGOON	B-263
CHALK RIVER	CHALK RIVER WPCP	B-264
CHAPLEAU	CHAPLEAU LAGOON	B-336
CHATHAM	CHATHAM WPCP	B-17
CHESLEY	CHESLEY LAGOON	B-18
CHESTERVILLE	CHESTERVILLE LAGOON	B-265
CLINTON	CLINTON WPCP	B-19
COBDEN	COBDEN WPCP	B-266
COBOURG	COBOURG WPCP NO 1	B-187
COBOURG	COBOURG WPCP NO 2	B-188
COCHRANE	COCHRANE WPCP	B-337
COLBORNE	COLBORNE WPCP	B-189
COLDWATER	COLDWATER WPCP	B-190
COLLINGWOOD	COLLINGWOOD WPCP	B-191
COLLINGWOOD	CRAIGLEIGH WPCP	B-20
COOKSTOWN	COOKSTOWN WPCP	B-192
CORNWALL	CORNWALL WPCP	B-267
CORNWALL	LONG SAULT WPCP	B-268
COSBY M.M.	NOELVILLE LAGOON	B-338
DEEP RIVER	DEEP RIVER WPCP	B-269
DELHI	DELHI WPCP	B-120
DELORO	DELORO WPCP	B-270
DESERONTO	DESERONTO WPCP	B-271
DOVER	MITCHELL'S BAY LAGOON DRAYTON LAGOON	B-21 B-121
DRAYTON	DRESDEN WPCP	B-121 B-22
DRESDEN	DRYDEN WPCP	
DRYDEN DUBREUILVILLE	A CONTRACTOR AND A CONT	B-413 B-339
DUNDALK	DUBREUILVILLE LAGOON DUNDALK LAGOON	B-339
DUNDAS	DUNDAS KING ST.WPCP	B-122
DUNNVILLE	OSWEGO PARK LAGOON	B-124
DUNNVILLE	DUNNVILLE WPCP	B-123
DURHAM	DURHAM MUN WPCP	B-24
DUTTON	DUTTON LAGOON	B-25
DYSART-ET-AL	HALIBURTON WPCP	B-193
EAR FALLS	EAR FALLS WPCP	B-414
EAST GWILLIMBURY	HOLLAND LANDING LAGOON	B-194
EAST GWILLIMBURY	MOUNT ALBERT WPCP	B-195
EAST HAWKESBURY	CHUTE A BLONDEAU WPCP	B-272
EAST WILLIAMS	AILSA CRAIG WPCP	B-26
EAST ZORRA-TAVISTOCK	TAVISTOCK LAGOON	B-27
EGANVILLE	EGANVILLE WPCP	B-273
ELLIOT LAKE	ESTEN LAKE WPCP	B-340
ELMVALE	ELMVALE LAGOON	B-196
ELORA	ELORA WPCP	B-125
EMO	EMO LAGOON	B-415
ENGLEHART	ENGLEHART LAGOON	B-341

ENNISKILLEN	OIL CITY LAGOON	B-28
ERNESTOWN	AMHERSTVIEW LAGOON	B-274
ERNESTOWN	ODESSA WPCP	B-275
ESPANOLA	OIL CITY LAGOON AMHERSTVIEW LAGOON ODESSA WPCP ESPANOLA WPCP ANGUS WPCP	B-342
ESSA	ANGUS WPCP	B-197
ESSEX	ESSEX LAGOON N.E.	B-29
ESSEX	ESSEX LAGOON S.W.	B-30
EXETER	EVENED IACOOM	B-31
FAUQUIER-STRICKLAND	FAUQUIER LAGOON FENELON FALLS WPCP FERGUS WPCP WATERDOWN WPCP FOREST LAGOON CRYSTAL BEACH WPCP ANGER AVE.WPCP	B-343
FAUQUIER-SIRICKLAND	FENELON EXILS MOSD	B-198
FENELON FALLS FERGUS	FEDCUS WDCD	
	TERGUS WPCP	B-126
FLAMBOROUGH	WATERDOWN WPCP	B-127
FOREST	FOREST LAGOON	B-32
FORT ERIE	CRYSTAL BEACH WPCP	B-129
FORT ERIE	ANGER AVE.WPCP	B-128
FORT ERIE	SIE A ENSAITTE-DOOGTW21OMN	B-130
	LAGOON	
FORT FRANCES	FORT FRANCES WPCP	B-416
FRANKFORD	FRANKFORD WPCP	B-276
GANANOQUE	GANANOQUE LAGOON	B-277
GEORGINA	SUTTON WPCP	B-200
GEORGINA	KESWICK WPCP	B-199
GERALDTON	FORT FRANCES WPCP FRANKFORD WPCP GANANOQUE LAGOON SUTTON WPCP KESWICK WPCP GERALDTON WPCP GLENCOE LAGOON GREEN CREEK WPCP	B-417
GLENCOE	GLENCOE LAGOON	B-33
GLOUCESTER	GREEN CREEK WPCP	B-278
GODERICH	GODERICH WPCP	B-34
GOLDEN	COCHENOUR LAGOON	B-419
GOLDEN	BALMERTOWN WPCP	B-418
GORE BAY	GORE BAY LAGOON	B-344
GOSFIELD NORTH GOULBOURN	COTTAM LAGOON	B-35
GOULBOURN	MUNSTER LAGOON	B-279
GRAND VALLEY	GRAND VALLEY WPCP	B-131
GRAVENHURST	GRAVENHURST WPCP	B-201
GRIMSBY	BIGGAR LAGOON	B-133
GRIMSBY		B-132
GRAVENHURST GRIMSBY GRIMSBY GUELPH	BAKER ROAD WPCP GUELPH WPCP	B-134
HAGARTY & RICHARDS		B-280
HAILEYBURY	LAKE TEMISKAMING OLD WPCP	B-346
HAILEYBURY	NORTH COBALT LAGOON	B-347
HAILEYBURY	LAKE TEMISKAMING NEW WPCP	B-345
HALDIMAND	CAYUGA WPCP	B-136
HALDIMAND	HAGERSVILLE WPCP	B-137
HALDIMAND	CALEDONIA WPCP	B-135
HALLEBOURG	HALLEBOURG LAGOON	B-348
HALTON HILLS	GEORGETOWN WPCP	B-203
HALTON HILLS	ACTON WPCP + LAGOON	
HAMILTON	WOODWARD AVE. WPCP	B-202
		B-138
HANOVER	HANOVER WPCP	B-36
HARRISTON	HARRISTON LAGOON	B-139
HARROW	HARROW LAGOON	B-37
HASTINGS	HASTINGS WPCP	B-204
HAVELOCK	HAVELOCK LAGOON	B-205
HAWKESBURY	HAWKESBURY WPCP	B-281
HEARST	HEARST LAGOON	B-350
HEARST	CECILE TRAILER PARK LAGOON	B-349
HENSALL	HENSALL LAGOON	B-38
HORNEPAYNE	HORNEPAYNE WPCP	B-351
HUNTSVILLE	HUNTSVILLE WPCP	B-206

IGNACE	IGNACE WPCP INGERSOLL NEW WPCP INGERSOLL OLD WPCP INNISFIL WPCP (ALCONA) IROQUOIS WPCP IROQUOIS FALLS WPCP	B-420
INGERSOLL	INGERSOLL NEW WPCP	B-39
INGERSOLL	INGERSOLL OLD WPCP	B-40
INNISFIL	INNISFIL WPCP (ALCONA)	B-207
IROQUOIS	IROQUOIS WPCP	B-282
IROQUOIS FALLS	IROQUOIS FALLS WPCP	B-352
IROQUOIS FALLS IROQUOIS FALLS	PORQUIS JUNCTION LAGOON	B-353
JOGUES	JOGUES LAGOON	B-354
KAPUSKASING	KAPUSKASING WPCP	B-356
KAPUSKASING	BRUNETVILLE LAGOON	B-355
KEMPTVILLE	JOGUES LAGOON KAPUSKASING WPCP BRUNETVILLE LAGOON KEMPTVILLE WPCP KENORA WPCP	B-283
KENORA	KENORA WPCP	B-421
KINCARDINE	KINCARDINE LAGOON	B-41
KINGSTON	KENORA WPCP KINCARDINE LAGOON KINGSTON WPCP (TOWNSHIP)	B-285
KINGSTON	KINGSTON WPCP (CITY)	B-284
KINGSVILLE	KINGSVILLE LAGOON	B-42
KIRKLAND LAKE	KIRKLAND LAKE WPCP	B-357
KIRKLAND LAKE	SWASTIKA WPCP	B-358
KITCHENER	KITCHENER WPCP	B-140
L'ORIGNAL	L'ORIGNAL WPCP	B-286
LAKEFIELD	KINGSTON WPCP (TOWNSHIP) KINGSVILLE LAGOON KIRKLAND LAKE WPCP SWASTIKA WPCP KITCHENER WPCP L'ORIGNAL WPCP LAKEFIELD LAGOON LANCASTER LAGOON	B-208
LANCASTER	LANCASTER LAGOON	B-287
KIRKLAND LAKE KITCHENER L'ORIGNAL LAKEFIELD LANCASTER LARDER LAKE LATCHFORD	LARDER LAKE TOWNSITE WPCP	B-359
LATCHFORD	LATCHFORD WPCP	B-360
LEAMINGTON	LEAMINGTON WPCP	B-43
LEEDS & LANSDOWNE FRONT		B-288
LINDSAY	LINDSAY LAGOON	B-209
LISTOWEL	LISTOWEL LAGOON	B-44
LITTLE CURRENT	LITTLE CURRENT LAGOON	B-361
LOBO	KILWORTH HEIGHTS WPCP	B-45
LONDON	POTTERSBURG WPCP	B-49
LONDON	VAUXHALL WPCP	B-50
LONDON	OXFORD WPCP	B-48
LONDON	GREENWAY WPCP	B-47
LONDON	ADELAIDE WPCP	B-46
LONGLAC	LONGLAC WPCP	B-422
LUCAN	LUCAN LAGOON	B-51
MADOC	MADOC LAGOON	B-289
MAIDSTONE	BELLE RIVER-MAIDSTONE WPCP	B-52
MANITOUWADGE	MANITOUWADGE LAGOON	B-423
MARATHON	MARATHON WPCP	B-424
MARKDALE	MARKDALE LAGOON	B-53
MARMORA	MARMORA WPCP	B-290
MATTAWA	MATTAWA LAGOON	B-362
MATTICE-VAL-COTE	MATTICE LAGOON	B-363
MC GILLIVRAY	PARKHILL LAGOON	B-54
MCGARRY	VIRGINIATOWN AND KEARNS WPCP	B-364
MEAFORD	MEAFORD WPCP	B-55
MERRICKVILLE	MERRICKVILLE WPCP	B-291
METRO TORONTO	NORTH TORONTO WPCP (EAST YORK)	B-213
METRO TORONTO	HIGHLAND CREEK WPCP	B-210
	(SCARBOROUGH)	
METRO TORONTO	HUMBER WPCP (ETOBICOKE)	B-211
METRO TORONTO	MAIN WPCP (TORONTO)	B-212
MICHIPICOTEN	WAWA LAGOON	B-365
MIDLAND	MIDLAND WPCP	B-214
MILDMAY	MILDMAY WPCP	B-56
MILLBROOK	MILLBROOK WPCP	B-215

MILTON	MILTON WPCP MILVERTON LAGOON	B-216
MILVERTON	MILVERTON LAGOON	B-57
MILTON MILVERTON MISSISSAUGA	LAKEVIEW WPCP SOUTH-PEEL SYSTEM	B-218
MISSISSAUGA	CLARKSON WPCP SOUTH-PEEL SYSTEM	B-217
MITCHELL MOONBEAM MOORE MOORE MOORE MOOSONEE D.A.B. MOOSONEE D.A.B.	MITCHELL LAGOON	B-58
MOONBEAM	MITCHELL LAGOON MOONBEAM LAGOON CORUNNA P.V. WPCP COURTRIGHT WPCP BRIGDEN P.V. LAGOON	B-366
MOORE	CORINNA P.V. WPCP	B-60
MOORE	COURTRIGHT WPCP	B-61
MOORE	BRIGDEN P.V. LAGOON	B-59
MOOSONEE D A B	BRIGDEN P.V. LAGOON MOOSONEE WPCP (OLD TOWNSITE) MOOSONEE WPCP (NORTH)	B-368
MOOSONEE D.A.B.	MOOSONEE WPCP (NORTH)	B-367
MORRISRIEG	MOOSONEE WPCP (OLD TOWNSITE) MOOSONEE WPCP (NORTH) MORRISBURG WPCP MOUNT FOREST WPCP PORT CARLING WPCP BALA WPCP NAKINA WPCP PORT DOVER WPCP WATERFORD LAGOON	B-292
MOUNT FOREST	MOINT FOREST WPCP	B-141
MICKOKY LYKES	PORT CARLING WPCP	B-220
MICKOKA LAKES	RALA WPCP	B-219
NAKINA	NAKTNA WPCP	B-425
NANTICOKE	PORT DOVER WECE	B-143
NANTICOKE	WATERFORD LACOON	B-146
NANTICOKE	STELCO IND. PARK LAGOON	B-144
NANTICOKE	JARVIS LAGOON	B-142
NANTICOKE	TOWNSEND LAGOON	B-145
NAPANEE	NAPANEE WPCP	B-293
NEPEAN	WATTS CREEK WPCP	B-295
NEPEAN	CARLTON LODGE WPCP	B-294
MOOSONEE D.A.B. MORRISBURG MOUNT FOREST MUSKOKA LAKES MUSKOKA LAKES NAKINA NANTICOKE NANTICOKE NANTICOKE NANTICOKE NANTICOKE NANTICOKE NAPANEE NEPEAN NEPEAN NEPEAN NEW LISKEARD NEWCASTLE NEWCASTLE NIAGARA FALLS NIAGARA-ON-THE-LAKE	JARVIS LAGOON TOWNSEND LAGOON NAPANEE WPCP WATTS CREEK WPCP CARLTON LODGE WPCP NEW LISKEARD LAGOON	B-369
NEWCASTLE	GRAHAM CREEK WPCP (NEWCASTLE)	B-221
NEWCASTLE	PORT DARLINGTON WPCP	B-222
NIAGARA FALLS	STAMFORD WPCP	B-147
NIAGARA-ON-THE-LAKE	NIAGARA-ON-THE-LAKE LAGOON	B-148
	CONISTON WPCP	B-370
NICKEL CENTRE NICKEL CENTRE	FALCONBRIDGE TOWNSITE WPCP	B-371
NICKEL CENTRE	WAHNAPITAE LAGOON	B-373
NICKEL CENTRE	GARSON LAGOON	B-372
NICKEL CENTRE NICKEL CENTRE NICKEL CENTRE NIPIGON NORFOLK	WAHNAPITAE LAGOON GARSON LAGOON NIPIGON WPCP PORT ROWAN LAGOON	B-426
NORFOLK	PORT ROWAN LAGOON	B-149
NORMANBY	NEUSTADT LAGOON	B-62
NORTH BAY	NORTH BAY WPCP	B-374
NORTH DUMFRIES	AYR P.V. WPCP	B-150
NORTH HIMSWORTH	CALLANDER LAGOON	B-375
NORWICH	NORWICH LAGOON	B-63
NORWOOD	NORWOOD WPCP	B-223
OAKVILLE	SOUTH EAST WPCP	B-224
OAKVILLE	SOUTH WEST WPCP	B-225
OIL SPRINGS	OIL SPRINGS LAGOON	B-64
OMEMEE	OMEMEE LAGOON	B-226
ONAPING FALLS	DOWLING WPCP	B-376
ONAPING FALLS	ONAPING WPCP	B-378
ONAPING FALLS	LEVACK WPCP OPASATIKA LAGOON	B-377
OPASATIKA		B-379
ORANGEVILLE ORILLIA	ORANGEVILLE WPCP ORILLIA WPCP	B-151 B-227
OSHAWA	HARMONY CREEK WPCP NO 1	
OSHAWA	HARMONY CR WPCP NO 1	B-230
OSHAWA	HARMONY CREEK 1&2 COMBINED	
COLLANA	EFFLUENT	D-229
OSNABRUCK	INGLESIDE WPCP	R-206
OSMADRUCK	INGLESIDE MACA	B-296

OWEN SOUND PAISLEY PALMERSTON PARIS PARRY SOUND PEMBROKE PENETANGUISHENE	OWEN SOUND WPCP PAISLEY WPCP PALMERSTON WPCP PARIS WPCP PARRY SOUND WPCP PEMBROKE WPCP PENETANGUISHENE WPCP FOX ST. WPCP	B-65
PAISLEY	PAISLEY WPCP	B-66
PALMERSTON	PALMERSTON WPCP	B-152
PARIS	PARIS WPCP	B-153
PARRY SOUND	PARRY SOUND WPCP	B-380
PEMBROKE	PEMBROKE WPCP	B-297
PENETANGUISHENE	PENETANGUISHENE WPCP	B-232
PENETANGUISHENE	FOX ST. WPCP WARKWORTH LAGOON PERTH LAGOON PETAWAWA WPCP PETERBOROUGH WPCP PETROLIA WPCP + LAGOON	B-231
PENETANGUISHENE PERCY PERTH PETAWAWA PETERBOROUGH PETROLIA PICKERING PICKLE LAKE PICTON PITTSBURG PLANTAGENET PLYMPTON POINT EDWARD PORT BURWELL PORT COLBORNE PORT COLBORNE PORT ELGIN PORT HOPE PORT MCNICOLL PORT STANLEY POWASSAN PRESCOTT	WARKWORTH LAGOON	B-233
PERTH	PERTH LAGOON	B-298
PETAWAWA	PETAWAWA WPCP	B-299
PETERBOROUGH	PETERBOROUGH WPCP	B-234
PETROLIA	PETROLIA WPCP + LAGOON	B-67
PICKERING	DUFFIN CREEK WPCP PICKLE LAKE WPCP PICTON WPCP CANA WPCP PLANTAGENET LAGOON WYOMING WPCP	B-235
PICKLE LAKE	PICKLE LAKE WPCP	B-427
PICTON	PICTON WPCP	
PITTSBURG	CANA WPCP	B-301
DI.ANTAGENET	DIANTACENET LACOON	B-301
DI VMDTON	WYOMING WDCD	B-502
DOINT FOWARD	DOTHE EDWARD WECK	B-60
DODE BUDWELL	DODE DUDWELL WDCD	B-09
PORT BURWELL	CEANAY WEEL WPCP	B-70
PORT COLBORNE	SEAWAY WPCP	B-154
PORT COLBORNE	WEST PLANT	B-155
PORT ELGIN	PORT ELGIN WPCP	B-71
PORT HOPE	PORT HOPE WPCP	B-236
PORT MCNICOLL	PORT MCNICOLL WPCP	B-237
PORT STANLEY	PORT STANLEY LAGOON	B-72
POWASSAN	POWASSAN LAGOON	B-381
PRESCOTT	EDWARDSBURGH WPCP	B-303
RALEIGH-TILBURY EAST	PICTON WPCP CANA WPCP PLANTAGENET LAGOON WYOMING WPCP POINT EDWARD WPCP PORT BURWELL WPCP SEAWAY WPCP WEST PLANT PORT ELGIN WPCP PORT HOPE WPCP PORT MCNICOLL WPCP PORT STANLEY LAGOON POWASSAN LAGOON EDWARDSBURGH WPCP MERLIN P.V. LAGOON WARREN LAGOON	B-73
RATTER & DUNNET RAYSIDE-BALFOUR	WARREN LAGOON	B-382
RAYSIDE-BALFOUR	WARREN LAGOON AZILDA WPCP CHELMSFORD LAGOON CHELMSFORD WPCP RED LAKE WPCP RED ROCK WPCP RENFREW WPCP	B-383
RAYSIDE-BALFOUR	CHELMSFORD LAGOON	B-384
RAYSIDE-BALFOUR	CHELMSFORD WPCP	B-385
RED LAKE	RED LAKE WPCP	B-428
RED ROCK	RED ROCK WPCP	B-429
RENFREW	RENFREW WPCP	B-304
RIDGETOWN	RIDGETOWN LAGOON	B-74
ROCKLAND	ROCKLAND LAGOON	B-305
RODNEY	RODNEY LAGOON	B-75
ROMNEY	WHEATLY WPCP	B-76
RUSSELL	RUSSELL LAGOON	B-307
RUSSELL	EMBRUN PV LAGOON	B-306
SARNIA	BRIGHT'S GROVE LAGOON	B-77
SARNIA	SARNIA WPCP	B-78
SAULT STE MARIE	SAULT STE.MARIE WPCP	B-386
SAULT STE MARIE	WEST END WPCP	B-387
SCHREIBER	SCHREIBER WPCP	B-430
SCUGOG	NONQUON RIVER LAGOON (PORT	B-238
	PERRY)	2 230
SEAFORTH	SEAFORTH LAGOON	B-79
SHELBURNE	SHELBURNE WPCP	B-156
SIDNEY	BATAWA WPCP	B-308
SIMCOE	SIMCOE WPCP	B-308
SIOUX LOOKOUT	SIOUX LOOKOUT WPCP	B-137
SMITH	WOODLAND ACRES WPCP	B-239
SMITHS FALLS	SMITHS FALLS WPCP	B-309
SMOOTH ROCK FALLS	SMOOTH ROCK FALLS WPCP	
SHOOTH ROCK PAILES	PHOOTH ROCK THILD MACA	B-388

SOMBRA	SOMBRA LAGOON	B-81
SOMBRA	PORT LAMBTON LAGOON	B-80
SOUTH DUMFRIES	ST GEORGE PV WPCP	B-158
SOUTHAMPTON	SOUTHAMPTON WPCP	B-82
ST CATHARINES	PORT WELLER WPCP	B-160
ST CATHARINES	PORT DALHOUSIE WPCP	B-159
ST EDMUNDS	TOBERMORY LAGOON	B-83
ST ISIDORE DE PRESCOTT	ST. ISIDORE LAGOON	B-310
ST MARYS	ST MARYS WPCP	B-84
ST THOMAS	ST THOMAS WPCP	B-85
STAYNER	STAYNER LAGOON	B-240
STEPHEN	GRAND BEND LAGOON	
	HURON PARK WPCP	B-86
STEPHEN		B-87
STIRLING	STIRLING LAGOON	B-311
STRATFORD	STRATFORD WPCP	B-88
STRATHROY	STRATHROY LAGOON	B-89
STURGEON FALLS	STURGEON FALLS WPCP	B-389
SUDBURY	SUDBURY WPCP	B-390
SUNDRIDGE	SUNDRIDGE LAGOON	B-391
TEMAGAMI	TEMAGAMI LAGOON	B-393
TEMAGAMI	NORTH GOWARD LAGOON	B-392
TERRACE BAY	TERRACE BAY WPCP	B-433
TERRACE BAY	TERRACE BAY LAGOON	B-432
THAMESVILLE	THAMESVILLE WPCP	B-90
THEDFORD	THEDFORD LAGOON	B-91
THESSALON	THESSALON LAGOON	B-394
THORNBURY	THORNBURY LAGOON	B-92
THUNDER BAY	THUNDER BAY WPCP	B-434
TILBURY	TILBURY LAGOON	B-93
TILBURY NORTH	STONEY POINT P.V. LAGOON	B-94
TILBURY WEST	COMBER LAGOON	B-95
TILLSONBURG	TILICONDIDC WDCD	B-96
TIMMINS	TILLSONBURG WPCP MATTAGAMI WPCP	B-396
TIMMINS	WHITNEY & TISDALE WPCP	B-396
TIMMINS	BOB'S LAKE LAGOON	B-397
TOTTENHAM	TOTTENHAM LAGOON	B-395
TRENTON		
TRENTON	TRENTON WPCP	B-312
TUCKERSMITH	VAN ASTRA WPCP	B-97
TWEED	TWEED LAGOON	B-313
UXBRIDGE	UXBRIDGE BROOK WPCP	B-242
VAL RITA-HARTY	VAL-RITA LAGOON	B-399
VAL RITA-HARTY	HARTY LAGOON	B-398
VALLEY EAST	HAMNER, VAL-CARON, VAL-THERESE	B-400
	WPCP	
VANKLEEK HILL	VANKLEEK HILL LAGOON	B-314
VAUGHAN	KLEINBURG WPCP	B-243
VICTORIA HARBOUR		B-244
WALDEN	LIVELY WPCP	B-401
WALDEN	MIKKOLA WPCP	B-402
WALKERTON	WALKERTON WPCP	B-98
WALLACEBURG	WALLACEBURG WPCP	B-99
WASAGA BEACH	WASAGA BEACH WPCP	B-245
WATERLOO	WATERLOO WPCP	B-161
WATFORD	WATFORD LAGOON	B-100
WEBBWOOD	WEBBWOOD LAGOON	B-403
WELLAND	WELLAND WPCP	B-162
WELLESLEY	WELLESLEY WPCP	B-163
WELLINGTON	WELLINGTON WPCP	B-315
45-74-74-75-75-75-75-75-75-75-75-75-75-75-75-75-		

WEST LINCOLN WEST LORNE WESTMINSTER WESTMINSTER WESTPORT WHITBY WHITBY WHITBY WHITCHURCH-STOUFFVILLE WHITE RIVER WIARTON WILLIAMSBURG WILMOT WILMOT WINCHESTER WINDSOR WINDSOR WINDSOR WINGHAM WOODSTOCK WOOLWICH	WHITE RIVER LAGOON WIARTON LAGOON WILLIAMSBURG PV LAGOON NEW HAMBURG LAGOON BADEN WPCP WINCHESTER LAGOON LITTLE RIVER WPCP WESTERLY WPCP WINGHAM LAGOON WOODSTOCK WPCP ELMIRA WPCP (COMBINED FLOW)	
WOOLWICH WOOLWICH ZURICH	ST. JACOBS PV WPCP	B-167 B-168
ZURICH	ZURICH LAGOON	B-109

## Index of Appendix B by Plant Name

	Plant Name	Municipality	Page #
	ACTON WPCP + LAGOON ADELAIDE WPCP AILSA CRAIG WPCP AIRPORT WPCP ALEXANDRIA LAGOON ALFRED LAGOON ALLISTON WPCP ALMONTE LAGOON ALVINSTON WPCP AMHERSTBURG WPCP AMHERSTVIEW LAGOON	HALTON HILLS	B-202
	ADELATOR WOOD	LONDON	B-46
9	ATICA CDATC WDCD	EXCT WILLIAMS	B-26
- 3	AILSA CRAIG WPCP	ENST WILLIAMS	B-114
	ALEVANDETA TACCON	EAST WILLIAMS BRANTFORD ALEXANDRIA	B-114 B-253
3	ALEBED IACOON	ALFRED	B-254
9	ALITEMON WDCD	ALLISTON	B-234 B-172
- 1	ALLISION WPCP	ALMONTE	B-172
i i	ALUTHONIE LAGOON	ALVINSTON	B-6
- 1	AMHERSTRIPS WDCD	AMHERSTBURG	B-7
	AMHERSTVIEW LAGOON	ERNESTOWN	B-274
	ANGER AVE.WPCP	FORT ERIE	B-128
	ANGUS WPCP	ESSA	B-197
	ARNPRIOR WPCP	ARNPRIOR	B-256
	ARTHUR LAGOON	ARTHUR	B-113
	ATIKOKAN WPCP	ATIKOKAN	B-408
	AYLMER LAGOON	AYLMER	B-11
	AYR P.V. WPCP	NORTH DUMFRIES	B-150
	AZILDA WPCP	RAYSIDE-BALFOUR	B-383
	BADEN WPCP	WILMOT	B-165
	BAKER ROAD WPCP	GRIMSBY	B-132
	BALA WPCP		B-219
	BALMERTOWN WPCP	GOLDEN	B-418
	BANCROFT WPCP	BANCROFT	B-257
	BARRIE WPCP	BARRIE	B-174
	BARRY'S BAY WPCP	BARRY'S BAY	B-258
	BATAWA WPCP	SIDNEY	B-308
	BATH WPCP	BATH	B-259
	BEARDMORE LAGOON	BEARDMORE	B-411
	BEAVERTON RIVER 1 LAGOON	BROCK	B-182
	(SUNDERLAND) BEAVERTON RIVER 2 LAGOON	BROCK	B-183
	(CANNINGTON)	BROCK	D-103
	BEETON LAGOON	BEETON	B-175
	BELLE RIVER-MAIDSTONE WPCP	MAIDSTONE	B-52
	BELLE VALLEE LAGOON	CASEY	B-334
	BELLEVILLE WPCP	BELLEVILLE	B-260
	BELMONT LAGOON	BELMONT	B-12
	BIGGAR LAGOON	GRIMSBY	B-133
	BLENHEIM LAGOON	BLENHEIM	B-14
	BLIND RIVER WPCP	BLIND RIVER	B-329
	BLYTH WPCP	BLYTH	B-15
	BOB'S LAKE LAGOON	TIMMINS	B-395
	BOBCAYGEON WPCP	BOBCAYGEON	B-177
	BRACEBRIDGE LAGOON	BRACEBRIDGE	B-178
	BRACEBRIDGE WPCP	BRACEBRIDGE	B-179
	BRADFORD WPCP	BRADFORD	B-180
	BRANTFORD WPCP	BRANTFORD	B-115
	BRIGDEN P.V. LAGOON	MOORE	B-59
	BRIGHT'S GROVE LAGOON	SARNIA	B-77
	BRIGHTON LAGOON	BRIGHTON	B-181
	BROCKVILLE WPCP	BROCKVILLE	B-261
	BRUCE MINES LAGOON	BRUCE MINES	B-330

BRUNETVILLE LAGOON BRUSSELS WPCP BURK'S FALLS LAGOON CAINSVILLE LAGOON CALEDONIA WPCP CALLANDER LAGOON CAMPBELLFORD WPCP CANA WPCP CAPREOL LAGOON CARAMAT WPCP CARDIFF LAGOON CARLETON PLACE WPCP CARLTON LODGE WPCP CASSELMAN LAGOON CAYUGA WPCP	KAPUSKASING BRUSSELS BURK'S FALLS BRANTFORD HALDIMAND NORTH HIMSWORTH CAMPBELLFORD PITTSBURG CAPREOL CARAMAT BICROFT CARLETON PLACE NEPEAN CASSELMAN HALDIMAND HEARST CHALK RIVER CHAPLEAU CHATHAM RAYSIDE-BALFOUR RAYSIDE-BALFOUR CHESLEY	B-355
BRUSSELS WPCP	BRUSSELS	B-16
BURK'S FALLS LAGOON	BURK'S FALLS	B-331
CAINSVILLE LAGOON	BRANTFORD	B-116
CALEDONIA WPCP	HALDIMAND	B-135
CALLANDER LAGOON	NORTH HIMSWORTH	B-375
CAMPBELLFORD WPCP	CAMPBELLFORD	B-186
CANA WPCP	PITTSBURG	B-301
CAPREOL LAGOON	CAPREOL	B-333
CARAMAT WPCP	CARAMAT	B-412
CARDIFF LAGOON	BICROFT	B-176
CARLETON PLACE WPCP	CARLETON PLACE	B-262
CARLTON LODGE WPCP	NEPEAN	B-294
CASSELMAN LAGOON	CASSELMAN	B-263
CAYUGA WPCP	HALDIMAND	B-136
CECILE TRAILER PARK LAGUON	TEARS I	B-349
CHALK RIVER WPCP	CHALK RIVER	B-264
CHAPLEAU LAGOON	CHAPLEAU	B-336
CHATHAM WPCP	CHATHAM	B-17
CHELMSFORD LAGOON	RAYSIDE-BALFOUR	B-384
CHELMSFORD WPCP	RAYSIDE-BALFOUR	B-385
CHESLEY LAGOON	CHESLEY	B-18
CHESTERVILLE LAGOON	CHESTERVILLE	B-265
CHUTE A BLONDEAU WPCP	EAST HAWKESBURY	B-272
CHALK RIVER WPCP CHAPLEAU LAGOON CHATHAM WPCP CHELMSFORD LAGOON CHELMSFORD WPCP CHESLEY LAGOON CHESTERVILLE LAGOON CHUTE A BLONDEAU WPCP CLARKSON WPCP SOUTH-PEEL SYSTEM	MISSISSAUGA	B-217
SYSTEM	CLINTON COBDEN COBOURG COBOURG GOLDEN COCHRANE COLBORNE COLDWATER COLLINGWOOD TILBURY WEST NICKEL CENTRE	
CLINTON WPCP	CLINTON	B-19
COBDEN WPCP	COBDEN	B-266
COBOURG WPCP NO 1	COBOURG	B-187
SYSTEM CLINTON WPCP COBDEN WPCP COBOURG WPCP NO 1 COBOURG WPCP NO 2 COCHENOUR LAGOON COCHRANE WPCP	COBOURG	B-188
COCHENOUR LAGOON	GOLDEN	B-419
COCHRANE WPCP	COCHRANE	B-337
COLBORNE WPCP	COLBORNE	B-189
COLDWATER WPCP	COLDWATER	B-190
COLBORNE WPCP COLDWATER WPCP COLLINGWOOD WPCP COMBER LAGOON	COLLINGWOOD	B-191
COMBER LAGOON	TILBURY WEST	B-95
CONISTON WPCP	NICKEL CENTRE	B-370
COOKSTOWN WPCP	COOKSTOWN	B-192
CORBETT CREEK WPCP	WHITBY	B-246
CORNWALL WPCP	CORNWALL	B-267
CORUNNA P.V. WPCP	MOORE	B-60
COTTAM LAGOON	GOSFIELD NORTH	B-35
COURTRIGHT WPCP	MOORE	B-61
CRAIGLEIGH WPCP	COLLINGWOOD	B-20
CRYSTAL BEACH WPCP	FORT ERIE	B-129
DEEP RIVER WPCP	DEEP RIVER	B-269
DELHI WPCP	DELHI	B-120
DELORO WPCP	DELORO	B-270
DESERONTO WPCP	DESERONTO	B-271
DOWLING WPCP	ONAPING FALLS	B-376
DRAYTON LAGOON	DRAYTON	B-121
DRESDEN WPCP	DRESDEN	B-22
DRYDEN WPCP	DRYDEN	B-413
DUFFIN CREEK WPCP	PICKERING	B-235
DUNDALK LAGOON	DUNDALK	B-23
DUNDAS KING ST.WPCP	DUNDAS	B-122
DUNNVILLE WPCP	DUNNVILLE	B-123
DUBREUILVILLE LAGOON	DUBREUILVILLE	B-339

DURHAM MUN WPCP	DURHAM	B-24
DUTTON LAGOON	DUTTON	B-25
EAR FALLS WPCP	EAR FALLS	B-414
EARLTON LAGOON	ARMSTRONG	B-322
EDGEWATER BEACH LAGOON	ANDERDON	B-8
EDWARDSBURGH WPCP	PRESCOTT	B-303
EGANVILLE WPCP	EGANVILLE	B-273
ELMIRA WPCP (COMBINED FLOW)	WOOLWICH	B-167
ELMVALE LAGOON	ELMVALE	B-196
ELORA WPCP	ELORA	B-125
EMBRUN PV LAGOON	RUSSELL	B-306
EMO LAGOON	EMO	B-415
ENGLEHART LAGOON	ENGLEHART	B-341
ESPANOLA WPCP	ESPANOLA	B-342
ESSEX LAGOON N.E.	ESSEX	B-29
ESSEX LAGOON S.W.	ESSEX	B-30
ESTEN LAKE WPCP	ELLIOT LAKE	B-340
EXETER LAGOON	EXETER	B-31
FALCONBRIDGE TOWNSITE WPCP	NICKEL CENTRE	B-371
FAUQUIER LAGOON	FAUQUIER-STRICKLAND	B-343
FENELON FALLS WPCP	FENELON FALLS	B-198
FERGUS WPCP	FERGUS	B-126
FOREST LAGOON	FOREST	B-32
FORT FRANCES WPCP	FORT FRANCES	B-416
FOX ST. WPCP	PENETANGUISHENE	B-231
FRANKFORD WPCP	FRANKFORD	B-276
GALT WPCP	CAMBRIDGE	B-117
GANANOQUE LAGOON	CAMBRIDGE GANANOQUE	B-277
GARSON LAGOON	NICKEL CENTRE	B-372
GEORGETOWN WPCP	HALTON HILLS	B-203
GERALDTON WPCP	GERALDTON	B-417
GLENCOE LAGOON	GLENCOE	B-33
GODERICH WPCP	GODERICH	B-34
GORE BAY LAGOON	GORE BAY	B-344
GRAHAM CREEK WPCP (NEWCASTLE)		B-221
GRAND BEND LAGOON	STEPHEN	B-86
GRAND VALLEY WPCP	GRAND VALLEY	B-131
GRAVENHURST WPCP	GRAVENHURST	B-201
GREEN CREEK WPCP	GLOUCESTER	B-278
GREENWAY WPCP	LONDON	B-47
GUELPH WPCP	GUELPH	B-134
HAGERSVILLE WPCP	HALDIMAND	B-137
HALIBURTON WPCP	DYSART-ET-AL	B-193
HALLEBOURG LAGOON	HALLEBOURG	B-348
HAMNER, VAL-CARON, VAL-THERESE		B-400
WPCP		
HANOVER WPCP	HANOVER	B-36
HARMONY CR WPCP NO 2	OSHAWA	B-228
HARMONY CREEK 1&2 COMBINED		B-229
EFFLUENT		
HARMONY CREEK WPCP NO 1	OSHAWA	B-230
HARRISTON LAGOON	HARRISTON	B-139
HARROW LAGOON	HARROW	B-37
HARTY LAGOON	VAL RITA-HARTY	
HASTINGS WPCP	HASTINGS	B-204
HAVELOCK LAGOON	HAVELOCK	B-205
HAWKESBURY WPCP	HAWKESBURY	B-281
HEARST LAGOON	HEARST	B-350
		_ 555

HENSALL LAGOON HESPELER WPCP	HENSALL CAMBRIDGE METRO TORONTO	B-38
HESPELER WPCP	CAMBRIDGE	B-118
HIGHLAND CREEK WPCP	METRO TORONTO	B-210
(SCARBOROUGH)		
HOLLAND LANDING LAGOON	EAST GWILLIMBURY	B-194
HOLTYRE WPCP	BLACK RIVER MATHESON	B-324
HOLTYRE WPCP HOLTYRE-ROSS MINE WPCP HORNEPAYNE WPCP	BLACK RIVER MATHESON HORNEPAYNE	
HORNEPAYNE WPCP	HORNEPAYNE	B-351
HUMBER WPCP (ETOBICOKE)	METRO TORONTO	B-211
HUNTSVILLE WPCP	HINTSVILLE	B-206
HIDON DYDK MDCD	CTEDUEN	B-200
HUNTSVILLE WPCP HURON PARK WPCP IGNACE WPCP INGERSOLL NEW WPCP INGERSOLL OLD WPCP INGLESIDE WPCP	TCNACE	B-420
INCEDENT NEW WOOD	INCERCOLL	B-420
INGERSOLL OLD WPCP	INGERSOLL	B-39
INGERSOLL OLD WPCP	INGERSULL	B-40
INGLESIDE WPCP	OSNABRUCK	B-296
INNISTIL WPCP (ALCONA)	INNISFIL	B-207
IROQUOIS FALLS WPCP	IROQUOIS FALLS	B-352
IROQUOIS WPCP	IROQUOIS	B-282
JARVIS LAGOON	NANTICOKE	B-142
JOGUES LAGOON	JOGUES	B-354
KAPUSKASING WPCP	KAPUSKASING	B-356
KEMPTVILLE WPCP	KEMPTVILLE	B-283
INGLESIDE WPCP INNISFIL WPCP (ALCONA) IROQUOIS FALLS WPCP IROQUOIS WPCP JARVIS LAGOON JOGUES LAGOON KAPUSKASING WPCP KEMPTVILLE WPCP KENORA WPCP KESWICK WPCP KILLALOE STATION WPCP	BLACK RIVER MATHESON HORNEPAYNE METRO TORONTO HUNTSVILLE STEPHEN IGNACE INGERSOLL INGERSOLL OSNABRUCK INNISFIL IROQUOIS FALLS IROQUOIS NANTICOKE JOGUES KAPUSKASING KEMPTVILLE KENORA GEORGINA HAGARTY & RICHARDS	B-421
KESWICK WPCP	GEORGINA	B-199
KILLALOE STATION WPCP	HAGARTY & RICHARDS	B-280
KILLALOE STATION WPCP KILWORTH HEIGHTS WPCP KINCARDINE LAGOON KINGSTON WPCP (CITY) KINGSTON WPCP (TOWNSHIP) KINGSVILLE LAGOON		B-45
KINCARDINE LAGOON	KINCARDINE	B-41
KINGSTON WPCP (CITY)	KINGSTON	B-284
KINGSTON WPCP (TOWNSHIP)	TEXT ACCOUNTS	B-285
KINGSTON WPCP (TOWNSHIP) KINGSVILLE LAGOON KIRKLAND LAKE WPCP KITCHENER WPCP KLEINBURG WPCP L'ORIGNAL WPCP	KINGSTON KINGSVILLE	B-42
KIRKLAND LAKE WPCP	KIRKLAND LAKE	B-357
KITCHENER WDCD	KITCHENED LAKE	B-140
KI FINRIDG WDCD	VALICHAN	B-140
L'ORIGNAL WPCP	ILODICNAT	B-243
LAKE SIMCOE LAGOON (BEAVERTON)	KIRKLAND LAKE KITCHENER VAUGHAN L'ORIGNAL BROCK	D-286
LAKE TEMISKAMING NEW WPCP	HAILEYBURY	D-184
LAKE TEMISKAMING OLD WPCP	HATIEVENER	B-345
		B-346
LAKEFIELD LAGOON LAKEVIEW WPCP SOUTH-PEEL	LAKEFIELD	B-208
	MISSISSAUGA	B-218
SYSTEM	*****	
LANCASTER LAGOON	LANCASTER	B-287
LANSDOWNE LAGOON	LEEDS & LANSDOWNE FRONT	
LARDER LAKE TOWNSITE WPCP	LARDER LAKE	B-359
LATCHFORD WPCP	LATCHFORD	B-360
LEAMINGTON WPCP	LEAMINGTON ONAPING FALLS	B-43
LEVACK WPCP		B-377
LINDSAY LAGOON	LINDSAY	B-209
LISTOWEL LAGOON	LISTOWEL	B-44
LITTLE CURRENT LAGOON	LITTLE CURRENT	B-361
LITTLE RIVER WPCP	WINDSOR	B-105
LIVELY WPCP	WALDEN	B-401
LONG SAULT WPCP	CORNWALL	B-268
LONGLAC WPCP	LONGLAC	B-422
LUCAN LAGOON	LUCAN	B-51
MADOC LAGOON	MADOC	B-289
MADSEN COMMUNITY WPCP	BAIRD	B-410
MAIN WPCP (TORONTO)	METRO TORONTO	B-212
MANITOUWADGE LAGOON	MANITOUWADGE	B-423

	B-323
	B-424
	B-53
	B-290
	B-396
	B-362
	B-9
	B-55
RALEIGH-TILBURY EAST	B-73
MERRICKVILLE	B-291
MIDLAND	B-214
WALDEN	B-402
MILDMAY	B-56
MILLBROOK	B-215
MILTON	B-216
MILVERTON	B-57
ANSON HINDON MINDEN	B-173
MITCHELL	B-58
DOVER	B-21
MOONBEAM	B-366
MOOSONEE D.A.B.	B-367
MOOSONEE D.A.B.	B-368
MODDICBIIDC	D_202
EAST GWILLIMBURY	B-195
MOUNT FOREST	B-141
GOULBOURN	B-279
NAKINA	B-425
NAPANEE	B-293
NORMANBY	B-62
WILMOT	B-166
NEW LISKEARD	B-369
NIAGARA-ON-THE-LAKE	B-148
NIPIGON	B-426
COSBY M.M.	B-338
SCUGOG	B-238
NORTH BAY	B-374
HAILEYBURY	B-347
TEMAGAMI	B-392
METRO TORONTO	B-213
NORWICH	B-63
NORWOOD	B-223
ERNESTOWN	B-275
ENNISKILLEN	B-28
	B-64
OMEMEE	B-226
ONAPING FALLS	B-378
OPASATIKA	B-379
ORANGEVILLE	B-151
ORILLIA	B-227
DUNNVILLE	B-124
OWEN SOUND	B-65
LONDON	B-48
PAISLEY	B-66
PALMERSTON	B-152
PARIS	B-153
	BLACK RIVER MATHESON TIMMINS MATTAWA MATTICE-VAL-COTE ANDERDON MEAFORD RALEIGH-TILBURY EAST MERRICKVILLE MIDLAND WALDEN MILDMAY MILLBROOK MILTON MILVERTON ANSON HINDON MINDEN MITCHELL DOVER MOONBEAM MOOSONEE D.A.B. MOORISBURG EAST GWILLIMBURY MOUNT FOREST GOULBOURN NAKINA NAPANEE NORMANBY WILMOT NEW LISKEARD NIAGARA-ON-THE-LAKE NIPIGON COSBY M.M. SCUGOG  NORTH BAY HAILEYBURY TEMAGAMI METRO TORONTO NORWICH NORWOOD ERNESTOWN ENNISKILLEN OIL SPRINGS OMEMEE ONAPING FALLS OPASATIKA ORANGEVILLE OWIN SOUND LONDON PAISLEY PALMERSTON

PARKHILL LAGOON	MC GILLIVRAY	B-54
PARRY SOUND WPCP	PARRY SOUND	B-380
PEMBROKE WPCP	PEMBROKE	B-297
PENETANGUISHENE WPCP	PENETANGUISHENE	B-232
PERTH LAGOON	PERTH	B-298
PETAWAWA WPCP	PETAWAWA	B-299
PETERBOROUGH WPCP	PETERBOROUGH	B-234
PETROLIA WPCP + LAGOON	PETROLIA	B-67
PICKLE LAKE WPCP	PICKLE LAKE	B-427
PICTON WPCP	PICTON	B-300
PLANTAGENET LAGOON	PLANTAGENET	B-302
PLATTSVILLE LAGOON	BLANDFORD-BLENHEIM	B-13
POINT EDWARD WPCP	POINT EDWARD	B-69
POROLLS JUNCTION LAGOON	TROOUGIS FALLS	B-353
PORT RIPWELL WPCP	PORT BURWELL	B-70
PORT CARLING WPCP	MIISKOKA LAKES	B-220
DODT DALHOUSTE WDCD	ST CATHADINES	B-150
DODT DADITHOTON WDCD	NEWCASTLE	B-222
DODE DOVED WDCD	NANTICOKE	B-1/3
DODT FIGHN WDCD	DODT FIGH	D-143
DODE HODE WECE	DODE HODE	B-71
DODE TAMBETON TACCON	COMBDA	B-230
DOPT MONICOLL WDCD	POPT MCNICOLL	B-00
DODT DOWN INCOON	NODEOTR	B-237
DODT STANLEY LACOON	DODT CTANIEV	B-72
DODT WELLED WDCD	ST CATHADINES	B-160
DOTTERSRIDG WDCD	LONDON	B-49
POWASSAN LAGOON	POWASSAN	B-381
PRESTON WPCP	CAMBRIDGE	B-119
PRINCIE CREEK WPCP NO 1	WHITEV	B-247
PRINGLE CREEK WPCP NO 2	WHITEV	B-248
PARKHILL LAGOON PARRY SOUND WPCP PEMBROKE WPCP PEMBROKE WPCP PENETANGUISHENE WPCP PERTH LAGOON PETAWAWA WPCP PETERBOROUGH WPCP PETROLIA WPCP + LAGOON PICKLE LAKE WPCP PICTON WPCP PLANTAGENET LAGOON PLATTSVILLE LAGOON POINT EDWARD WPCP PORQUIS JUNCTION LAGOON PORT BURWELL WPCP PORT CARLING WPCP PORT DALHOUSIE WPCP PORT DALHOUSIE WPCP PORT DOVER WPCP PORT LAMBTON LAGOON PORT MCNICOLL WPCP PORT MCNICOLL WPCP PORT ROWAN LAGOON PORT WELLER WPCP POTTERSBURG WPCP POWASSAN LAGOON PRESTON WPCP PINGLE CREEK WPCP NO 1 PRINGLE CREEK WPCP NO 2 RAINY RIVER LAGOON RAMORE LAGOON RED LAKE WPCP RED ROCK WPCP RED ROCK WPCP REDFREW WPCP RIDGETOWN LAGOON ROCKLAND LAGOON	ATWOOD	B-409
RAMORE LAGOON	BLACK RIVER MATHESON	B-327
RED LAKE WPCP	RED LAKE	B-428
RED ROCK WPCP	RED ROCK	B-429
RENFREW WPCP	RENFREW	B-304
RIDGETOWN LAGOON	RIDGETOWN	B-74
ROCKLAND LAGOON	ROCKLAND	B-305
RODNEY LAGOON	RODNEY	B-75
RUSSELL LAGOON	RUSSELL	B-307
SARNIA WPCP	SARNIA	B-78
SAULT STE.MARIE WPCP	SAULT STE MARIE	B-386
SCHREIBER WPCP	SCHREIBER	B-430
SEAFORTH LAGOON	SEAFORTH	B-79
SEAWAY WPCP	PORT COLBORNE	B-154
SHELBURNE WPCP	SHELBURNE	B-156
SIMCOE WPCP	SIMCOE	B-157
SIOUX LOOKOUT WPCP	SIOUX LOOKOUT	B-431
SKYWAY WPCP	BURLINGTON	B-185
SMITHS FALLS WPCP	SMITHS FALLS	B-309
SMITHVILLE LAGOON	WEST LINCOLN	B-164
SMOOTH ROCK FALLS WPCP	SMOOTH ROCK FALLS	B-388
SOMBRA LAGOON	SOMBRA	B-81
SOUTH EAST WPCP	OAKVILLE	B-224
SOUTH WEST WPCP		D 225
COURTS WOMON LIDOR	OAKVILLE	B-225
SOUTHAMPTON WPCP	SOUTHAMPTON	B-82
SOUTHAMPTON WPCP SOUTHLAND PARK WPCP ST GEORGE PV WPCP		

ST MARYS WPCP	ST MARYS	B-84
ST THOMAS WPCP	ST MARYS ST THOMAS CASIMIR J.A.	B-85
ST CHAPLES LACOON	CASTMID I A	B-335
om Totrore Lacoon	CM ICIDODE DE DECCOMO	
ST. ISIDORE LAGOUN	ST ISIDORE DE PRESCOTT	B-310
ST. JACOBS PV WPCP	WOOLWICH	B-168
STAMFORD WPCP	NIAGARA FALLS	B-147
ST MARYS WPCP ST THOMAS WPCP ST. CHARLES LAGOON ST. ISIDORE LAGOON ST. JACOBS PV WPCP STAMFORD WPCP STAYNER LAGOON	STAYNER	B-240
STELCO IND. PARK LAGOON	NANTICOKE	B-144
STEVENSVILLE-DOUGLASTOWN		B-130
LAGOON		2 130
	CMIDI INC	D 211
STIRLING LAGOON	STIRLING TILBURY NORTH	B-311
STONEY POINT P.V. LAGOON	TILBURY NORTH	B-94
STOUFFVILLE WPCP	WHITCHURCH-STOUFFVILLE	B-249
STRATFORD WPCP	STRATFORD	B-88
STRATHROY LAGOON	STRATHROY	B-89
STURGEON FALLS WPCP	STURGEON FALLS	B-389
SUDBURY WPCP	SUDBURY	B-390
SUNDRIDGE LAGOON	SUNDRIDGE	B-391
SILLALO MOCD	CEORCINA	B-200
CHACMINA WECK	VIDVIAND TAKE	B-200
SWASTIKA WPCP	STRATFORD STRATHROY STURGEON FALLS SUDBURY SUNDRIDGE GEORGINA KIRKLAND LAKE ARRAN	B-358
TARA LAGOON	ARRAN	B-10
STONEY POINT P.V. LAGOON STOUFFVILLE WPCP STRATFORD WPCP STRATHROY LAGOON STURGEON FALLS WPCP SUDBURY WPCP SUNDRIDGE LAGOON SUTTON WPCP SWASTIKA WPCP TARA LAGOON TAVISTOCK LAGOON TEMAGAMI LAGOON TERRACE BAY LAGOON TERRACE BAY WPCP	EAST ZORRA-TAVISTOCK	B-27
TEMAGAMI LAGOON	TEMAGAMI	B-393
TERRACE BAY LAGOON	TERRACE BAY	B-432
TERRACE BAY WPCP	TERRACE BAY	B-433
THAMESVILLE WPCP	THAMESVILLE	B-90
THEDFORD LAGOON	THEDFORD	B-91
THESSALON LAGOON	THESSALON	B-394
THORNBURY LAGOON	THORNBURY	B-92
THUNDER BAY WPCP	TEMAGAMI TERRACE BAY TERRACE BAY THAMESVILLE THEDFORD THESSALON THORNBURY THUNDER BAY TILBURY	B-434
TILBURY LAGOON	TILBURY	B-93
	TILBURI	D-93
TILLSONBURG WPCP	TILLSUNBURG	B-96
TOBERMORY LAGOON	ST EDMUNDS	B-83
TOTTENHAM LAGOON	TILLSONBURG ST EDMUNDS TOTTENHAM NANTICOKE TRENTON TWEED	B-241
TOWNSEND LAGOON	NANTICOKE	B-145
TRENTON WPCP	TRENTON	B-312
TWEED LAGOON	TWEED	B-313
UXBRIDGE BROOK WPCP	UXBRIDGE	B-242
VAL GAGNE LAGOON	BLACK RIVER MATHESON	B-328
VAL-RITA LAGOON	VAL RITA-HARTY	B-399
VAN ASTRA WPCP	TUCKERSMITH	B-97
VANKLEEK HILL LAGOON	VANKLEEK HILL	B-314
VAUXHALL WPCP	LONDON	
		B-50
VERNER LAGOON	CALDWELL	B-332
VICTORIA HARBOUR WPCP		
VIRGINIATOWN AND KEARNS WPCP		B-364
WAHNAPITAE LAGOON	NICKEL CENTRE	B-373
WALKERTON WPCP	WALKERTON	B-98
WALLACEBURG WPCP	WALLACEBURG	B-99
WARKWORTH LAGOON	PERCY	B-233
WARREN LAGOON	RATTER & DUNNET	B-382
WASAGA BEACH WPCP	WASAGA BEACH	B-245
WATERDOWN WPCP	FLAMBOROUGH	B-127
WATERFORD LAGOON	NANTICOKE	B-146
WATERLOO WPCP	WATERLOO	
		B-161
WATFORD LAGOON	WATFORD	B-100
WATTS CREEK WPCP	NEPEAN	B-295
WAWA LAGOON	MICHIPICOTEN	B-365

WEBBWOOD LAGOON	WEBBWOOD	B-403
	· · · · · · · · · · · · · · · · · · ·	
WELLAND WPCP	WELLAND	B-162
WELLESLEY WPCP	WELLESLEY	B-163
WELLINGTON WPCP	WELLINGTON	B-315
WEST END WPCP	SAULT STE MARIE	B-387
WEST LORNE LAGOON	WEST LORNE	B-101
WEST PLANT	PORT COLBORNE	B-155
WESTERLY WPCP	WINDSOR	B-106
WESTMINSTER WPCP	WESTMINSTER	B-103
WESTPORT LAGOON	WESTPORT	B-316
WHEATLY WPCP	ROMNEY	B-76
WHITE RIVER LAGOON	WHITE RIVER	B-404
WHITNEY & TISDALE WPCP	TIMMINS	B-397
WIARTON LAGOON	WIARTON	B-104
WILLIAMSBURG PV LAGOON	WILLIAMSBURG	B-317
WINCHESTER LAGOON	WINCHESTER	B-318
WINGHAM LAGOON	WINGHAM	B-107
WOODLAND ACRES WPCP	SMITH	B-239
WOODSTOCK WPCP	WOODSTOCK	B-108
WOODWARD AVE. WPCP	HAMILTON	B-138
WYOMING WPCP	PLYMPTON	B-68
ZURICH LAGOON	ZURICH	B-109

# APPENDIX C

# RAW SEWAGE AND SECONDARY BYPASS DATA FOR 1987

## ABBREVIATIONS FOR APPENDIX C

Hrs	Hours
# of times	Number of bypass occurrences
1000 m3	Thousands of cubic meters
WPCP	Water Pollution Control Plant

# SOUTHWEST REGION

#### 1987 BYPASS OCCURRENCES

REGION : SOUTHWEST DISTRICT : WINDSOR MUNICIPALITY : CHATHAM PLANT : CHATHAM WPCP WORKS NUMBER : 110000098 OPERATING AUTHORITY : MUNICIPAL

TREATMENT : CONVENTIONAL ACTIVATED SLUDGE

WATERCOURSE : THAMES RIVER MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ERIE
IJC DESIGNATION : INDIRECT PHOSPHORUS REMOVAL - CONTINUOUS EFFLUENT POLISHING

DESIGN CAPACITY : 35.91 1000 m3

POPULATION SERVED : 41000

PLANT BYPASS			ļ	SECONDARY BYPASS		
1987	VOLUME    (1000m3)	DURATION   (Hrs)	# of TIMES	VOLUME     (1000m3)  	DURATION (Hrs)	   # of TIME   
JAN		<u>.</u>	. I	   26.820	ŧ	l   -
FEB	• 1	- [	- 1	18.630	•	
MAR	•	-	- 1	43.640		
APR	-	- 1	- 1	83.640	•	
MAY	- 1	- I	- 1	65.910	~	
JUN	- 1	- 1	- 1	48.640	*	
JUL	-	- 1	- 1	33.640		
AUG	•	- 1	· 1	144.100	10) 12)	
SEP	- 1	- 1	- 1	183.200		
OCT	• 1	· [	- 1	105.000	•	
NOV		- 1	- 1	190.900	•	
DEC	. !	- 1	- !	284.500	•	! •
TOTAL				1228.620		
BSERVATIONS	0	0	0	12	0	j 0
PERCENTAGE	0.000%	1		12.611%		I I
OF PLANT	1	1		l i		I
EFFLUENT		1		i i		I
		1		ı i		İ

#### 1987 BYPASS OCCURRENCES

MUNICIPALITY : GODERICH REGION : SOUTHWEST
PLANT : GODERICH WPCP DISTRICT : OWEN SOUND
WORKS NUMBER : 120000943 OPERATING AUTHORITY : MUNICIPAL
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE WATERCOURSE : LAKE HURON

PHOSPHORUS REMOVAL-CONTINUOUS MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE HURON

IJC DESIGNATION : DIRECT

POPULATION SERVED: 7400

DESIGN CAPACITY :

9.09 1000 m3

	PL	ANT BYPASS		H.	SECONDARY BYPASS			
1987	VOLUME     (1000m3)   	DURATION   (Hrs)	# of TIMES		VOLUME   (1000m3)	DURATION (Hrs)	   # of TIMES   	
JAN	   •	-	•	11	-	17-	•	
FEB	1 • 1	- 1	•	П	9			
MAR	1 - 1	- 1	•	11				
APR	l - i	1.8	2	11	· i	8₩		
MAY	1 • 1	1.5	1	11		-		
JUN	1 • 1	5.0	5	11	- 1	•		
JUL	1 - 1	6.0	2	11	. 1			
AUG	l · I	10.0	5	П	. 1	X <b>:</b>		
SEP	1 - 1	2.5	2	11	. 1	S <b>=</b> :	-	
OCT	•	5.7	5	П	- 1		:-	
NOV	1 - 1	16.8	4	11	- 1	-	-	
DEC	ļ - į	19.5	4	11	·	82	-	
TOTAL	 	68.8	30	11. 11				
OBSERVATIONS	0	9	9	11	0	0	0	
PERCENTAGE				11	0.000%			
OF PLANT EFFLUENT		ļ		11	l		l	

MUNICIPALITY: LONDON

REGION : SOUTHWEST
DISTRICT : LONDON SOUTH PLANT : GREENWAY WPCP WORKS NUMBER : 120000863 OPERATING AUTHORITY : MUNICIPAL WATERCOURSE : THAMES RIVER TREATMENT : CONVENTIONAL ACTIVATED SLUDGE

MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ERIE PHOSPHORUS REMOVAL-CONTINUOUS

DESIGN CAPACITY : 124.33 1000 m3 IJC DESIGNATION : INDIRECT

	PL	ANT BYPASS		Щ.	SECONDARY BYPASS				
1987	VOLUME   (1000m3)	DURATION   (Hrs)	# of TIMES	11 11 11 .11.	VOLUME (1000m3)	DURATION (Hrs)	   # of TIMES   		
JAN	- 1	.		11	0.636		  -		
FEB	- [	- 1	¥	11	- 1				
MAR	- 1	-		11	26.818	7 <del>*</del> 2	-		
APR	. 1	- 1	-	11	65.136				
MAY	- 1	. 1	-	11	11.910	•	i ·		
JUN	- 1	٠ ۱	•	11	- 1	*			
JUL	- 1	•	<b>3</b> ,	11	• [	*			
AUG				11	20.500				
SEP	- 1	o <del>•</del> 0		11	16.818	(₩.).			
OCT	. 1	-	•	11	0.091	***	1 -		
NOV	- 1	:=·	-	11	62.500				
DEC	-	(2 <u>1</u> 1)	•	11	102.000	•			
TOTAL				-11. 	306.409				
OBSERVATIONS	0	0	0	11	9	0	0		
PERCENTAGE OF PLANT EFFLUENT		-		11	0.758%     		 		

MUNICIPALITY: LONDON

: POTTERSBURG WPCP

WORKS NUMBER: 120000836

TREATMENT : CONVENTIONAL ACTIVATED SLUDGE

PHOSPHORUS REMOVAL - CONTINUOUS

REGION : SOUTHWEST DISTRICT : LONDON SOUTH

OPERATING AUTHORITY : MUNICIPAL

WATERCOURSE : THAMES RIVER

MAJOR BASIN GREAT LAKES

MINOR BASIN : LAKE ERIE IJC DESIGNATION : INDIRECT

DESIGN CAPACITY : 22.04 1000 m3

POPULATION SERVED: 25653

PLANT BYPASS \_11. SECONDARY BYPASS Ш 1987 | VOLUME | DURATION | # of TIMES || VOLUME | DURATION | # of TIMES (1000m3) | (Hrs) || (1000m3)| (Hrs) 11 JAN 11 FEB 11 MAR 2.250 11 APR 2.641 П MAY 11 JUN 0.545 П JUL 11 AUG 0.664 Ш SEP 4.545 11 OCT 0.786 11 NOV 10.127 11 DEC 9.809 11 TOTAL 31.367 11 |OBSERVATIONS| 8 0 11 0 11 PERCENTAGE 0.517% 11 0.000% | OF PLANT 11 **EFFLUENT** 11

MUNICIPALITY: MAIDSTONE REGION: SOUTHWEST PLANT: BELLE RIVER-MAIDSTONE WPCP DISTRICT: WINDSOR WORKS NUMBER: 110002078 OPERATING AUTHORITY: MINISTRY

TREATMENT : EXTENDED AERATION

EXTENDED AERATION WATERCOURSE : LAKE ST.CLAIR
PHOSPHORUS REMOVAL-CONTINUOUS MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ERIE

DESIGN CAPACITY : 6.81 1000 m3 IJC DESIGNATION : DIRECT

	PLA	ANT BYPASS		1	SECONDARY	BYPASS
1987   	VOLUME   (1000m3)	DURATION   (Hrs)	# of TIMES   	VOLUME     (1000m3)  	DURATION (Hrs)	   # of TIMES   
JAN	.	•	.	   •	•	[   -
FEB	. 1	- 1		1 . 1	1. <b></b> (1	
MAR	- 1	i- j	- 1	1 . 1	:-:	1 -
APR	20.100	38.0	1	1 . 1		1 -
MAY	- 1	- 1	. 1	1 . 1		-
JUN		. 1	- 1	1 . 1	•	
JUL		- 1	•	1 . 1		
AUG	• 1		•	1 . 1	•	-
SEP	•	- 1	- 1	1 . 1		
OCT	•	- 1	- 1	1 • 1		1 -
NOV	•	- 1	- 1	1 . 1	•	1 -
DEC	-	. !	•	! • !	-	
TOTAL	20.100	38.0	1	¦		1
OBSERVATIONS	1	1	1	0	0	1 0
PERCENTAGE OF PLANT EFFLUENT		Ω		   0.000% 		 

MUNICIPALITY : MEAFORD REGION : SOUTHWEST

PLANT : MEAFORD WPCP DISTRICT : OWEN SOUND

WORKS NUMBER : 110000445 OPERATING AUTHORITY : MINISTRY

TREATMENT : HIGH RATE WATERCOURSE : GEORGIAN BAY

MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE HURON

DESIGN CAPACITY : 3.90 1000 m3 IJC DESIGNATION : DIRECT

	PLA	NT BYPASS		ļ	SECONDARY	BYPASS
1987	VOLUME     (1000m3)   	DURATION   (Hrs)	# of TIMES	VOLUME     (1000m3)  	DURATION (Hrs)	   # of TIMES   
JAN	. 1	(%)	- I	1     •	•	! !
FEB		-	•	1 . 1	•	
MAR		•	-	•		-
APR	l - I		\ <del>=</del> 2	1 . 1		•
MAY		92=1	-	1 • 1	:: <b>-</b> ::	-
JUN	1 - 1	0₩	-	l - i	120	
JUL	0.014	0.5	1	•	٠	•
AUG	1 - 1	-	•	1 • 1		
SEP	1 • 1	-	<b>.</b>	•	.=x	•
ОСТ	i - 1	(5 <del>.0</del> 0	₩1	1 · 1		i -
NOV	1 - 1	v=	-	1 - i	U#8	
DEC	. !		-	ļ · ļ	•	
TOTAL	0.014	0.5	1	 		
DBSERVATIONS	1 1	1	1	0 1	0	0
PERCENTAGE OF PLANT		-		0.000%		 
EFFLUENT	(I) J	ļ		i		, 

MUNICIPALITY : PORT ELGIN PLANT : PORT ELGIN WPCP

WORKS NUMBER : 120001470

TREATMENT : OXIDATION DITCH

REGION : SOUTHWEST DISTRICT : OWEN SOUND OPERATING AUTHORITY : MUNICIPAL

WATERCOURSE : SAUGEEN RIVER
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE HURON IJC DESIGNATION : INDIRECT

DESIGN CAPACITY : 6.45 1000 m3

	PLA	NT BYPASS		ļ <del></del>	SECONDARY	BYPASS
1987	VOLUME    (1000m3)	DURATION   (Hrs)	# of TIMES	VOLUME     (1000m3)	DURATION (Hrs)	   # of TIMES   
JAN	-	- 1	-	   •		   -
FEB	- 1	- 1			•	
MAR	0.580	• 1	÷	•	•	
APR	- 1	- 1		H - 1	<b>4</b>	
MAY	- 1	-	-	11 - 1	<b>&gt;</b> €10	1 -
JUN	1 - 1		-	11 - 1		1 -
JUL	1 - 1		-	II - 1		1 -
AUG	1 - 1	- 1	-	-	-	-
SEP	1 - 1	-	•	11 - 1		
OCT	1 - 1	-		•		
NOV	l • l	-	•	H • 1	•	•
DEC	0.680	8 <b>.</b> *1	•	H - I	•	
TOTAL	1.260					 
OBSERVATIONS	2	0	0	0	0	0
PERCENTAGE	0.046%			    0.000%		1
OF PLANT	i i	lE.		ii i		ĺ
EFFLUENT				11		ĺ

MUNICIPALITY: SOUTHAMPTON REGION: SOUTHWEST
PLANT: SOUTHAMPTON WPCP
DISTRICT: OWEN SOUND
WORKS NUMBER: 110001453
OPERATING AUTHORITY: MINISTRY

TREATMENT : OXIDATION DITCH WATERCOURSE : SAUGEEN R.

MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE HURON

DESIGN CAPACITY : 3.04 1000 m3 IJC DESIGNATION : INDIRECT

	PLA	NT BYPASS		SECONDARY BYPASS			
1987     	VOLUME   (1000m3)	DURATION   (Hrs)	# of TIMES	VOLUME     (1000m3)  	DURATION (Hrs)	   # of TIMES   	
JAN	- 1	- 1	4	   -	-	 	
FEB	- 1	- 1	- 1	1 . 1	٠		
MAR	- 1	- 1	- 1	1 . 1		-	
APR	. 1	-	-:	1 - 1		-	
MAY	- 1	- 1		1 . 1	•		
JUN	. 1	- 1	- 1	1 , 1	•		
JUL	· 1	- [		1 . 1	•		
AUG	- 1	e=:	- 1	1 . 1			
SEP	. 1	-	- 1	1 - 1		1 -	
OCT	. 1	- 1	- 1	1 - 1		1 -	
NOV	. 1	-		1 - 1	•	-	
DEC	0.060	0.7		•	•		
TOTAL	0.060	0.7		i i			
BSERVATIONS	1	1	0	1 0	0	0	
PERCENTAGE		. 1		0.000%		l I	
OF PLANT EFFLUENT		 		] [		 	

MUNICIPALITY : STEPHEN

REGION : SOUTHWEST DISTRICT : OWEN SOUND

PLANT : HURON PARK WPCP

OPERATING AUTHORITY : MINISTRY

WORKS NUMBER : 110003488

TREATMENT : CONVENTIONAL ACTIVATED SLUDGE

WATERCOURSE : AUSABLE R
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE HURON

DESIGN CAPACITY :

1.81 1000 m3

IJC DESIGNATION : INDIRECT

POPULATION SERVED :

1400

	PLA	NT BYPASS		!	SECONDARY	BYPASS
1987	VOLUME   (1000m3)   	DURATION	# of TIMES	VOLUME     (1000m3)	DURATION (Hrs)	   # of TIMES   
JAN	-	- 1	-	   •	-	
FEB	0.100	2.0	1	1 - 1		
MAR	0.300	12.0	1	1 - 1	•	
APR	- 1	- 1	-	1 - 1		
MAY		- 1	18	-	: <b>•</b>	
JUN	-	- 1	-			1 -
JUL	- 1	- 1	-		-	
AUG	0.070	2.5	1	•	-	
SEP	0.050	2.0	1	П -	•	
OCT	0.860	17.0	3	•	•	
NOV	2.160	62.0	4			1
DEC	3.060	71.0	5	H -	-	
TOTAL	6.600	168.5	16			1
OBSERVATIONS	7	7	7	0	0	0
PERCENTAGE	1.344%			0.000%		1
OF PLANT	i i			11		I
EFFLUENT	1 1	1		H		Î

REGION : SOUTHWEST
DISTRICT : LONDON NORTH MUNICIPALITY: STRATFORD

PLANT : STRATFORD WPCP WORKS NUMBER : 110000702

OPERATING AUTHORITY : MINISTRY TREATMENT : CONVENTIONAL ACTIVATED SLUDGE

WATERCOURSE : AVON RIVER
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ERIE PHOSPHORUS REMOVAL - CONTINUOUS EFFLUENT POLISHING

IJC DESIGNATION : INDIRECT DESIGN CAPACITY : 27.27 1000 m3

DURATION   (Hrs)   -   -   46.0   -	# of TIMES   	VOLUME   (1000m3) 	DURATION     (Hrs)   	# of TIMES
	.		- 1	g <b>*</b>
	0 <b>=</b> 0			
	- 1		- 1	( <b>=</b> (
1 - 1		54.300	82.8	6
The second of the second of	- 1	22.300	56.8	3
6.0	• [	3.700	6.0	1
- 1	• 1	i • i	- 1	s <del>.</del> .
1 - 1	. 1	2.600	2.0	1
1 - 1	- 1	2.090	4.1	2
	• 1		· • I	*
3.0	- 1	1.250	10.0	3
9.3	- 1	19.000	33.5	2
22.0	•	39.290	62.8	5
86.3		144.530	258.0	23
j 5	0 i	. 8	8	8
x   		   2.264%   		
כ	 	i i i		

MUNICIPALITY: TUCKERSMITH REGION: SOUTHWEST
PLANT: VAN ASTRA WPCP
BISTRICT: OWEN SOUND
WORKS NUMBER: 110003013

OPERATING AUTHORITY: MINISTRY

TREATMENT : CONVENTIONAL ACTIVATED SLUDGE WATERCOURSE : MUN DRAIN TO BAYFIELD R.

PHOSPHORUS REMOVAL-CONTINUOUS MAJOR BASIN : GREAT LAKES MINOR BASIN : LAKE HURON

DESIGN CAPACITY : 1.40 1000 m3 IJC DESIGNATION : INDIRECT

	PL	ANT BYPASS		1	SECONDARY	BYPASS
   1987 	VOLUME   (1000m3)	DURATION   (Hrs)	# of TIMES	    VOLUME    (1000m3)  	DURATION (Hrs)	# of TIMES   
   JAN	-	-	-	II - 1	-	
FEB	•	. 1	-	1 . 4	•	-
MAR		0.5	•	1 - 1	•	•
APR	•		•	1 . 1	•	•
MAY				1 • 1	0.€8	
JUN	• [		-		-	-
JUL	- 1	- 1	-	1	·	-
AUG	•				-	1 -
SEP	- 1	- 1	-	1 .	•	
OCT	•		•	-		
NOV	•	11.0				-
DEC	n <del>e</del> z	. !		-	-	
TOTAL		11.5		i		r
OBSERVATIONS	0	2	0	0	0	. 0
PERCENTAGE OF PLANT EFFLUENT				    0.000% 		 
	l	ll		II		

MUNICIPALITY: WALKERTON

PLANT : WALKERTON WPCP

REGION : SOUTHWEST DISTRICT : OWEN SOUND

OPERATING AUTHORITY : MUNICIPAL

WORKS NUMBER : 120001489

WATERCOURSE : SAUGEEN RIVER

TREATMENT : CONVENTIONAL ACTIVATED SLUDGE

MAJOR BASIN

: GREAT LAKES

PHOSPHORUS REMOVAL - CONTINUOUS

MINOR BASIN

: LAKE HURON

DESIGN CAPACITY :

7.54 1000 m3

IJC DESIGNATION : INDIRECT

	PLA	ANT BYPASS		ļ	SECONDARY	BYPASS
1987	VOLUME    (1000m3)	DURATION   (Hrs)	# of TIMES	VOLUME     (1000m3)  	DURATION (Hrs)	   # of TIMES   
JAN	   •	<del>,</del>	<b>a</b>	   •	:€	
FEB		- 1	i#3	i - i		j -
MAR		- 1	.	l • i	*	
APR	5.466	120.0	-	1 - 1	•	-
MAY	l - I	- 1	- I	l • i	-	
JUN	0.759	24.0	•	1 . [	ו.	-
JUL		- 1		1 . 1	): <b>=</b> :	
AUG	[	÷ [	:#4	1 · i	-	-
SEP		-	· 1	1 . 1		
OCT	. [	:-	- 1	1 . 1		
NOV	- 1	- 1	- 1	1 · i		
DEC	. [	32	•	ļ · į	-	
TOTAL	6.225	144.0		 		
BSERVATIONS		2	0	i o i	0	0
PERCENTAGE   OF PLANT   EFFLUENT	i	. I	   	0.000%     0.000%   		

MUNICIPALITY : WINDSOR REGION : SOUTHWEST PLANT : LITTLE RIVER WPCP DISTRICT : WINDSOR WORKS NUMBER : 120001096 OPERATING AUTHORITY : MUNICIPAL

TREATMENT : CONVENTIONAL ACTIVATED SLUDGE WATERCOURSE : LITTLE RIVER
PHOSPHORUS REMOVAL-CONTINUOUS MAJOR BASIN : GREAT LAKES

MAJOR BASIN : GREAT LAKES MINOR BASIN : LAKE ERIE

DESIGN CAPACITY : 36.36 1000 m3 IJC DESIGNATION : DIRECT

	PL	NT BYPASS		SECONDARY BYPASS			
1987       	VOLUME   (1000m3)	DURATION   (Hrs)	# of TIMES	    VOLUME	DURATION (Hrs)	   # of TIMES    -	
   MAL	58.900	.	-	    •		   -	
FEB	104.000	- 1	i <b>-</b> 1	11 - 1		-	
MAR	184.000	- 1		11 - 1	•	1 -	
APR	279.000	- 1	244	II · 1	0=:		
MAY	89.000	- 1	•	II · I	•		
JUN	235.200	· i		II • I	•		
JUL	184.500	- 1	. <del></del> .	II - i		1 -	
AUG	216.400			II - I		1 -	
SEP	185.800	- 1		11 - 1	-	1 -	
OCT	37.300	- 1		11 - 1	•	1 -	
NOV	159.900	•		11 - 1		1 -	
DEC	426.500	- 1	-	ii - i	-	-	
TOTAL	2160.500			 			
OBSERVATIONS	12	0	0	ii o	0	0	
PERCENTAGE	   18.067%			    0.000%		1	
OF PLANT	ĺ		Ì	11		1	
EFFLUENT	ĺ			11		I	

MUNICIPALITY: WINDSOR REGION: SOUTHWEST
PLANT: WESTERLY WPCP
WORKS NUMBER: 120001103
OPERATING AUTHORITY: MUNICIPAL

TREATMENT : PRIMARY WATERCOURSE : DETROIT RIVER
PHOSPHORUS REMOVAL-CONTINUOUS MAJOR BASIN : GREAT LAKES

MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ERIE

DESIGN CAPACITÝ : 163.65 1000 m3 IJC DESIGNATION : DIRECT

	PLA	NT BYPASS		SECONDARY BYPASS			
1987	VOLUME   (1000m3)	DURATION   (Hrs)	# of TIMES	VOLUME     (1000m3)  	DURATION (Hrs)	   # of TIMES   	
JAN	<u> </u>	.	-	l	-	 	
FEB		-	- 1	1 . 1	•		
MAR		-	•	1 - 1			
APR	25.000	-			X <del>=</del> /	-	
MAY	15.800	-	-	1 . 1	>•	-	
JUN	102.300	- 1	-	1 - 1	•	-	
JUL	46.100	-	-	1 . 1	•		
AUG	47.600	-	•	1 . 1	.=	-	
SEP	28.000	- 1	8 <b>.</b> 8	1 . 1	•	1 -	
OCT	520.000	- 1	-	1 . 1	•	-	
NOV	64.600	- 1	•	1 - 1	•		
DEC	59.200	- !	2	-	•	! -	
TOTAL	908.600			<u> </u>			
OBSERVATIONS	9	0	0	0	0	j 0	
PERCENTAGE	2.018%	i		0.000%			
OF PLANT	1	1		1 1		ľ	
EFFLUENT	1 1	ĺ		1 1		I	

# WEST CENTRAL REGION

MUNICIPALITY : DUNNVILLE

PLANT : DUNNVILLE WPCP

WORKS NUMBER : 120001443

TREATMENT CONVENTIONAL ACTIVATED SLUDGE

TOTAL |

0

0.000% |

|OBSERVATIONS|

PERCENTAGE |

OF PLANT!

EFFLUENT |

PHOSPHORUS REMOVAL - CONTINUOUS

WATERCOURSE

MAJOR BASIN

REGION

DISTRICT

WEST CENTRAL

HALDIMAND-NORFOLK/BRANT

OPERATING AUTHORITY : MINISTRY

:

:

GRAND RIVER GREAT LAKES

MINOR BASIN

LAKE ERIE INDIRECT

DESIGN CAPACITY :

7.72 1000 m3

POPULATION SERVED :

5471

IJC DESIGNATION

PLANT BYPASS SECONDARY BYPASS 11 1987 VOLUME DURATION | # of TIMES | VOLUME | DURATION | # of TIMES (1000m3) | (Hrs) || (1000m3)| (Hrs) 11 JAN 0.2 | 11 FEB П MAR 1.5 | П APR 166.9 11 MAY 4.3 | 11 JUN 2.5 | 11 JUL 11 AUG 7.2 | 11 SEP 44.4 | 11 OCT 2.1 | 11 NOV 11 DEC 11

11

11

11

11

11

11

0

0.000% |

0

0

0

229.1 |

MUNICIPALITY: FERGUS REGION : WEST CENTRAL PLANT: FERGUS WPCP DISTRICT: CAMBRIDGE

WORKS NUMBER : 110000249 OPERATING AUTHORITY : MINISTRY
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE WATERCOURSE : GRAND RIVER

PHOSPHORUS REMOVAL-CONTINUOUS MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ERIE

DESIGN CAPACITY : 5.00 1000 m3 IJC DESIGNATION : INDIRECT

	PL/	NT BYPASS		SECONDARY BYPASS				
1987	VOLUME     (1000m3)   	DURATION   (Hrs)	# of TIMES	VOLUME     (1000m3)	DURATION (Hrs)	   # of TIMES   		
JAN		·		1 . 1	-	 		
FEB	1 - 1	-	•			-		
MAR	1 • 1	- 1	N=0	H - 1	-	1 -		
APR	3.789	40.0	8 <u>1</u> 2		-	-		
MAY	0.021	0.3	•			-		
JUN	1 - 1	- 1		11 •				
JUL	î - i	- 1		1 -				
AUG	1 - 1	- 1	×.	II ·	3.	1 -		
SEP	1 - 1	.	-	•		1 -		
OCT	1 - 1	- 1	:: <u>-</u>	II -	-	1 -		
NOV		•	/ <del>-</del>	H .	•	-		
DEC	•	÷	, e	<u> </u>   -				
TOTAL	3.810	40.3		 	 	1		
OBSERVATIONS	2	2	0	0	0	] 0		
PERCENTAGE	0.253%			0.000%	İ	l		
OF PLANT			l	li	Ī	I		
EFFLUENT	1 1			11	1	l		

MUNICIPALITY : HALDIMAND

REGION : WEST CENTRAL
DISTRICT : HALDIMAND-NORFOLK/BRANT PLANT : CALEDONIA WPCP

WORKS NUMBER : 120001452 OPERATING AUTHORITY : MINISTRY TREATMENT : CONVENTIONAL ACTIVATED SLUDGE WATERCOURSE : GRAND RIVER

PHOSPHORUS REMOVAL - CONTINUOUS MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ERIE

DESIGN CAPACITY : 2.27 1000 m3 IJC DESIGNATION : INDIRECT

	PL	ANT BYPASS		Ц.	SECONDARY BYPASS			
1987	VOLUME     (1000m3)   	DURATION   (Hrs)	# of TIMES		VOLUME   (1000m3)	DURATION   (Hrs)	# of TIMES	
JAN		-		 	·		¥y	
FEB	- 1	- 1	-	П	- 1	•		
MAR	-	- 1	(=)	11	- 1	- 1	•	
APR	1 - 1	- 1	•	П	24.970	129.5	8	
MAY	1 - 1	- 1		11			5 <b>≠</b> 3	
JUN		- 1	) <del>-</del> ;	П	.	- 1	0 <b>₩</b> 8	
JUL	- 1	- 1	7-1	11	-	• 1	•	
AUG		. 1	R <b>E</b> G	11	. 1	•	•	
SEP	۱ - ۱	- 1	•	П	e j	- i	: <del>=</del> 1	
OCT	• [	- 1	•	11	- 1		: <del>=</del> :	
NOV		- 1	( <del>*</del> )	П	3.390	20.5	1	
DEC		-	•	11	7.540	41.8	2	
TOTAL				11. 11	35.900	191.8	11	
BSERVATIONS	0	0	0	11	3	3	3	
PERCENTAGE		. ;		11	4.256%	]		
OF PLANT	9 9	!		!!	1	I		
EFFLUENT	4	ļ		П	I	1		

MUNICIPALITY : HALDIMAND

REGION : WEST CENTRAL
DISTRICT : HALDIMAND-NORFOLK/BRANT PLANT : CAYUGA WPCP

OPERATING AUTHORITY : MINISTRY WORKS NUMBER : 110000089 WATERCOURSE : GRAND RIVER TREATMENT : OXIDATION DITCH MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ERIE PHOSPHORUS REMOVAL - CONTINUOUS

0.90 1000 m3 IJC DESIGNATION : INDIRECT DESIGN CAPACITY :

	PLA	ANT BYPASS		<u>!</u>	SECONDARY	BYPASS
1987		DURATION   (Hrs)	# of TIMES	VOLUME     (1000m3)	DURATION   (Hrs)	# of TIMES
JAN	   •	•	-	   •	-	
FEB	1 . 1	- 1	-	1 - 1	- 1	2
MAR	1 - 1	-	8	1 - 1	- 1	3
APR	1.856	25.0		6.549	79.0	÷
MAY	1 - 1	-	( <b>1</b> 0)	1 - 1	- 1	-
JUN	1 - 1	0.	·=s	1 - 1	- 1	-
JUL	1 - 1	-	i <b>=</b> 0;	1 - 1	- 1	-
AUG	1 - 1	« <del>-</del>	( <b>●</b> 0	1 - 1	- 1	-
SEP	1 - 1		-	11 - 1	- 1	-
ОСТ	1 - 1	- 1	-	11 - 1	- 1	•
NOV	1 . 1	- 1	•	3.008	26.0	
DEC	•	• !	<b>.</b>	1.738	27.0	2
TOTAL	1.856	25.0		11.295	132.0	2
BSERVATIONS	1 1	1	0	3	3	1
PERCENTAGE	1.029%			    6.264%		
OF PLANT	1 1	I		11		
EFFLUENT	i i	j		l I	ĺ	

MUNICIPALITY : HALDIMAND

REGION : WEST CENTRAL
DISTRICT : HALDIMAND-NORFOLK/BRANT PLANT : HAGERSVILLE WPCP

OPERATING AUTHORITY : MINISTRY WORKS NUMBER : 110001024

WATERCOURSE : SANDUSK CREEK
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ERIE
IJC DESIGNATION : INDIRECT TREATMENT : EXTENDED AERATION PHOSPHORUS REMOVAL - CONTINUOUS

1.00 1000 m3 DESIGN CAPACITY :

	PLA	NT BYPASS		SECONDARY BYPASS			
1987	VOLUME   (1000m3)	DURATION   (Hrs)	# of TIMES   	VOLUME     (1000m3)  	DURATION (Hrs)	   # of TIMES 	
JAN	   0.798	54.0	3	] 		<b>*</b> //	
FEB	. 1	- 1	-	1 . 1		-	
MAR	1.100	64.0	4	1 - 1		_	
APR	5.020	205.0	-	1 • 1	•	-	
MAY	0.019	1.0	1 ]	1 • 1			
JUN	0.152	12.0		i - i		-	
JUL	. 1	- 1	-	1 • 1	•		
AUG	- 1	- 1	- 1	1 - 1		-	
SEP	- 1	- 1	-	l • i	•		
ОСТ			•	1 - 1			
NOV	0.237	48.0	4	i - i			
DEC	0.046	44.0	5		-	•:	
TOTAL	7.372	428.0	17				
DBSERVATIONS	7	7	5	0	0	0	
PERCENTAGE OF PLANT EFFLUENT	i	   	ļ	0.000%     0.000%   		 	

MUNICIPALITY: HAMILTON

PLANT : WOODWARD AVE.WPCP (OFFSITE CHEM.ADDN)

WORKS NUMBER : 120001504 TREATMENT : CONVENTIONAL ACTIVATED SLUDGE

PHOSPHORUS REMOVAL-CONTINUOUS

REGION : WEST CENTRAL DISTRICT : HAMILTON OPERATING AUTHORITY : MUNICIPAL

IJC DESIGNATION : DIRECT

WATERCOURSE : REDHILL CREEK

MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ONTARIO

DESIGN CAPACITY : 409.14 1000 m3

	PL/	NT BYPASS		SECONDARY BYPASS				
1987	VOLUME   (1000m3)	DURATION   (Hrs)	# of TIMES   	VOLUME     VOLUME     (1000m3)  	DURATION (Hrs)	   # of TIMES   		
JAN	-	.	·	   68.000	•	 		
FEB	- 1	- 1	•	1 - 1				
MAR	14.000	- 1		17.000	-			
APR	37.800	- 1	- 1	1 - 1		-		
MAY	3.800	- 1	- 1	1 - 1		1 -		
JUN	22.500	- 1	- 1	4.500	a <u>.</u>			
JUL	18.000	- 1	- 1	1 - 1				
AUG	16.000	- 1	- 1	1 - 1		-		
SEP	- 1	- 1	• 1	1 . 1	8 <del>.</del>	1 .		
ОСТ	• 1	. 1	3.5	1 - 1	×.	1 -		
NOV	21.500	- 1		1 • 1		1 -		
DEC	17.000	- !	-	141.000	•	<u> </u>		
TOTAL	150.600			230.500				
DBSERVATIONS	8	o j	0	4	0	0		
PERCENTAGE OF PLANT	0.135%	į	į	0.206%		! !		
EFFLUENT	i	i	i			l 		

MUNICIPALITY: NIAGARA FALLS REGION : WEST CENTRAL DISTRICT : WELLAND PLANT : STAMFORD WPCP

WORKS NUMBER: 120001363 OPERATING AUTHORITY : MUNICIPAL

WATERCOURSE : CHIPPAWA POWER CANAL
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ONTARIO
IJC DESIGNATION : DIRECT TREATMENT : PRIMARY PHOSPHORUS REMOVAL - CONTINUOUS

DESIGN CAPACITY : 58.18 1000 m3

	PLA	NT BYPASS		ļ	SECONDARY	BYPASS
1987	VOLUME   (1000m3)	DURATION	# of TIMES	VOLUME     (1000m3)	DURATION (Hrs)	   # of TIMES 
JAN	.	- 1	-		-	<u>.</u>
FEB	- 1	. 1	-	1 . 1	•	-
MAR	245.893	. 1	*	•		-
APR	- 1	.	÷	-		-
MAY	- 1	-	-	1 - 1		-
JUN		.	-	1 - 1	-	-
JUL	23.480	- 1	=	1 - 1		,
AUG	- 1	- 1	<u> </u>	1 · 1		•
SEP	. 1	. 1	8	1 · j		-
OCT	- 1	.	H	I - I	-	-
NOV	265.855			1 - İ		-
DEC	117.259	- 1	-	ļ - ļ	-	#
TOTAL	652.487					
BSERVATIONS	4	0 [	0	0 1	0	0
PERCENTAGE		į		0.000%      0.000%		
EFFLUENT		i		i i		

MUNICIPALITY : ST CATHARINES

PLANT : PORT DALHOUSIE WPCP

WORKS NUMBER : 120001327

PHOSPHORUS REMOVAL - CONTINUOUS

TREATMENT : CONVENTIONAL ACTIVATED SLUDGE

WATERCOURSE : LAKE ONTARIO
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ONTARIO

IJC DESIGNATION : DIRECT

REGION : WEST CENTRAL DISTRICT : WELLAND

OPERATING AUTHORITY : MUNICIPAL

DESIGN CAPACITY :

61.37 1000 m3

	PLA	NT BYPASS		SECONDARY BYPASS				
1987   	VOLUME   (1000m3)	DURATION   (Hrs)	# of TIMES	VOLUME     (1000m3)  	DURATION (Hrs)	   # of TIMES   		
JAN	-	· 1	- I			   •		
FEB	- 1		- 1	•	<b>=</b> (			
MAR	0.475	-	•	1 - 1	•	٠ -		
APR	0.475	•	.	1 - 1	•	ĺ		
MAY	0.475	-	- 1	1 . 1	•			
JUN	0.475		:=:	1 . 1	•	-		
JUL	-	- 1	-	1 . 1	•	-		
AUG	- 1	- 1	( <b>=</b> 0)	1 . 1	•	1 .		
SEP	- 1	- 1	-	1 . 1	-	-		
OCT	0.475				٠	1 -		
NOV	0.475	+		1 . 1	•			
DEC	0.475	<del>.</del>		1 - 1	: <b></b>			
TOTAL	3.325			<u> </u>				
BSERVATIONS	7	0	0	0	0	1 0		
PERCENTAGE OF PLANT EFFLUENT	i	п		0.000%		     		

REGION : WEST CENTRAL DISTRICT : WELLAND MUNICIPALITY : ST CATHARINES

PLANT : PORT WELLER WPCP OPERATING AUTHORITY : MUNICIPAL WORKS NUMBER : 120001318

TREATMENT : CONVENTIONAL ACTIVATED SLUDGE

WATERCOURSE : PORT WELLER HARBOUR
MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ONTARIO
IJC DESIGNATION : DIRECT PHOSPHORUS REMOVAL - CONTINUOUS

DESIGN CAPACITY : 37.50 1000 m3

	PL	ANT BYPASS		<u> </u>	SECONDARY	BYPASS
1987	VOLUME   (1000m3)	DURATION   (Hrs)	# of TIMES	    VOLUME    (1000m3)	   DURATION   (Hrs) 	   # of TIMES   
JAN	 	•	•	    •	-	   •
FEB		- 1		ll ·		-
MAR	0.475	- 1		-		-
APR	0.475	- 1	-	II •		
MAY	0.475	- 1	-	II -	1 -	-
JUN	0.475	- 1	•	II •		
JUL		- 1	-	II -		
AUG	- 1	- 1		11 -		1 -
SEP	•	- 1		11 -		I -
OCT	0.475	-	7-2	-		
NOV	0.475		•	١١ -		1 -
DEC	0.475	÷ (	-	<u> </u>   -		! -
TOTAL	3.325					
OBSERVATIONS	8	0	0	11 11 0	. 0	1 0
ODDER TATIONS		•	ŭ	11	i	i
PERCENTAGE	0.022%			0.000%	i	i
OF PLANT	1 1			11	1	1
EFFLUENT	l i			11	1	1
	l i	, , , , , , , , , , , , , , , , , , ,		11	1	

MUNICIPALITY: WOOLWICH

PLANT : ELMIRA WPCP (COMBINED FLOW)

WORKS NUMBER : 110000150

TREATMENT : CONVENTIONAL ACTIVATED SLUDGE

PHOSPHORUS REMOVAL-CONTINUOUS

OPERATING AUTHORITY : MINISTRY

WATERCOURSE : CANAGAGIGUE CREEK

4.54 1000 m3

DESIGN CAPACITY : POPULATION SERVED :

7090

MAJOR BASIN : GREAT LAKES MINOR BASIN : LAKE ERIE

IJC DESIGNATION : INDIRECT

REGION : WEST CENTRAL DISTRICT : CAMBRIDGE

	- PLA	NT BYPASS		!	SECONDARY	BYPASS
1987	VOLUME   (1000m3)	DURATION   (Hrs)	# of TIMES	VOLUME     (1000m3)	DURATION (Hrs)	   # of TIMES   
JAN	-	-	1=0	1 . I	•	
FEB		-	-		•	•
MAR	•		•	! !	•	
APR	-	- !	•	! '!	•	
MAY				1 - 1	•	-
JUN	- !	- !	-	1 - 1	3.00	
JUL	- 1	-	-	1 - 1	1.	-
AUG		- 1	3 <b>=</b> 0	1 . 1	•	<u> </u>
SEP	I	- 1	·	1 . 1	•	•
OCT	0.461	E .	•	1 - 1	-	<del>-</del> 1
NOV	6.228		•	11 - 1	-	•
DEC		- 1	9 <b>7</b> 3	-		
TOTAL	6.689					
DBSERVATIONS	3	o į	0	0	0	0
PERCENTAGE	   0.415%		2	    0.000%		 
OF PLANT	İ	i				Ī
EFFLUENT	i					İ
	i i	i		П		i

MUNICIPALITY : WOOLWICH

PLANT : ST. JACOBS PV WPCP

WORKS NUMBER : 110001211

TREATMENT : OXIDATION DITCH

REGION : WEST CENTRAL DISTRICT : CAMBRIDGE

OPERATING AUTHORITY : MINISTRY

WATERCOURSE : CONESTOGO RIVER

MAJOR BASIN

: GREAT LAKES

MINOR BASIN

: LAKE ERIE

DESIGN CAPACITY :

0.95 1000 m3

PHOSPHORUS REMOVAL - CONTINUOUS

POPULATION SERVED :

1266

IJC DESIGNATION : INDIRECT

	PL	ANT BYPASS		ļ	SECONDARY	BYPASS
1987	VOLUME     (1000m3)   	DURATION   (Hrs)	   # of TIMES     	   VOLUME     (1000m3)  	DURATION   (Hrs)	# of TIMES
JAN	   -	- 1	V <del>E</del>	   •	-	٠
FEB	1 • 1	•	• 1	1 · j	- i	i <del>. •</del> 1
MAR	1 • 1	- 1	- 1	l • i		3-2
APR	1 - 1	-	*	ı - i	- i	-
MAY	1 - 1	· 1	- 1	i - i	- j	*
JUN	1 - 1	- 1	- 1	ì · i	e i	
JUL	1 - 1	- 1	- i	i · i	- i	
AUG	1 • 1	- j	5 <del>*</del> 2	i · i	- i	) <b>-</b> 1
SEP	1 - 1	-	- 1	i - i	- i	-
OCT	· 1	- i	- 1	0.304	5.3	•
NOV	1 - i	-	· i	i · i	. i	
DEC	ļ - ļ	· į	·	į · į	• [	
TOTAL	 			0.304	5.3	
BSERVATIONS	0	0	0	1 1	1 [	0
PERCENTAGE OF PLANT EFFLUENT	i i			   0.082%   		

# CENTRAL REGION

MUNICIPALITY : BURLINGTON REGION : CENTRAL

PLANT : SKYWAY WPCP DISTRICT : HALTON PEEL

WORKS NUMBER : 110000070 OPERATING AUTHORITY : MUNICIPAL

TREATMENT : CONVENTIONAL ACTIVATED SLUDGE WATERCOURSE : HAMILTON HARBOUR
PHOSPHORUS REMOVAL-CONTINUOUS MAJOR BASIN : GREAT LAKES

PHOSPHORUS REMOVAL-CONTINUOUS MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ONTARIO

DESIGN CAPACITY : 93.19 1000 m3 IJC DESIGNATION : DIRECT

	PL	ANT BYPASS		SECONDARY BYPASS				
1987	VOLUME     VOLUME    (1000m3)   	DURATION   (Hrs)	# of TIMES		VOLUME   (1000m3)	DURATION (Hrs)	   # of TIMES 	
JAN		-		 	0.214			
FEB	•	- 1	-	П	16.383		-	
MAR	- 1	· i		П	2.505			
APR		- 1	. <del>*</del> \	П	133.479	71-41	-	
MAY		- 1		П	0.207	-		
JUN	·	·- I		П	1.033			
JUL	۱ ۰ ۱	- 1	•	II	5.917	-	:=0	
AUG		- 1	<b>1</b>	II	21.772	-	( <b>=</b> )(	
SEP		· j		II	0.584		149	
OCT		8.5	<b>:</b> €3	11	- 1	-	<u></u>	
NOV		- 1	(m).(	П	26.554	19		
DEC		( <b>6</b> 0	<b>=</b> 3		44.306	•	i <del>±</del> n	
TOTAL				- 	252.954			
BSERVATIONS	0 [	o j	0	İ	11	0	0	
PERCENTAGE	n datatat	1		1	1.034%			
OF PLANT	()	 	3	<b> </b> 				

MUNICIPALITY : CAMPBELLFORD

REGION : CENTRAL
DISTRICT : PETERBOROUGH PLANT : CAMPBELLFORD WPCP

OPERATING AUTHORITY : MINISTRY WORKS NUMBER : 110000962

WATERCOURSE : TRENT RIVER TREATMENT : CONVENTIONAL ACTIVATED SLUDGE MAJOR BASIN : GREAT LAKES PHOSPHORUS REMOVAL - CONTINUOUS

MINOR BASIN : LAKE ONTARIO IJC DESIGNATION : INDIRECT

DESIGN CAPACITY : 5.90 1000 m3 POPULATION SERVED : 3247

	PLA	NT BYPASS		ļ	SECONDARY	BYPASS
1987   	VOLUME   (1000m3)	DURATION   (Hrs)	# of TIMES	   VOLUME   (1000m3)	DURATION (Hrs)	   # of TIMES   
JAN	1.860	-	18	    •		l 1 -
FEB	4.090	-	12	-	•	
MAR	23.830	- 1	18	11 - 1	-	٠ .
APR	9.040		8		-	i -
MAY	4.320	(4)	23			
JUN	6.740	(*)	23	-		•
JUL	6.830	8. <del>5</del> .	23	ll •		
AUG	11.320		29			1 -
SEP	13.290	77 <b>4</b>	30	•	•	1 -
OCT	7.460	-	31	•	-	-
NOV	13.990	-	20	-		•
DEC	1.130	. <del>.</del>	11	<u> </u>	٠	ļ ·
TOTAL	103.900		246			
OBSERVATIONS	12	0	12	0	0	] 0
PERCENTAGE	4.494%			0.000%		ĺ
OF PLANT	1			li .		1
EFFLUENT	Ì			11		1

MUNICIPALITY : COBOURG

PLANT : COBOURG WPCP NO 1

WORKS NUMBER: 120000097

TREATMENT : CONVENTIONAL ACTIVATED SLUDGE

PHOSPHORUS REMOVAL - CONTINUOUS

DISTRICT

: CENTRAL : PETERBOROUGH

OPERATING AUTHORITY : MUNICIPAL

WATERCOURSE : COBOURG BROOK

MAJOR BASIN

REGION

: GREAT LAKES

MINOR BASIN

: LAKE ONTARIO

DESIGN CAPACITY :

16.04 1000 m3

IJC DESIGNATION : INDIRECT

POPULATION SERVED :

5500

	PL	ANT BYPASS		!!_		SECONDARY	BYPASS
1987		DURATION   (Hrs)	# of TIMES	• •	   VOLUME  (1000m3)	DURATION (Hrs)	   # of TIMES   
JAN			ene.	       	·	<b>√</b> ₽0	
FEB	1 - 1	• 1		П	0.681	•	-
MAR	1 • 1	- 1		П	- 1	-	
APR	1 • 1	- 1	( <b>4</b> )	П	- 1	-	-
MAY	1 - 1	- 1	-	П	- 1	•	•
JUN	1 • 1	- 1	#	П	· 1	-	
JUL	1 - 1	• 1		П	- 1		
AUG	1 . 1	- 1	-:	П	- 1	•	
SEP	1 - 1	- 1	.≠v	П	- 1	-	-
OCT	1 - 1	- 1	*	П	- 1	•	•
NOV	1 . 1	- 1	-	П	- 1	•	
DEC	! - !	-	•	11	. [	-	( <del>1</del> .)
TOTAL	 				0.681		 
BSERVATIONS		0	0	II	1	0	0
PERCENTAGE OF PLANT EFFLUENT	i i	   			0.025%     0.025%   		   

MUNICIPALITY: METRO TORONTO

PLANT : HUMBER WPCP (ETOBICOKE)

WORKS NUMBER : 120000382

TREATMENT : CONVENTIONAL ACTIVATED SLUDGE

PHOSPHORUS REMOVAL-CONTINUOUS

REGION : CENTRAL
DISTRICT : METRO TORONTO WEST

OPERATING AUTHORITY : MUNICIPAL

WATERCOURSE : LAKE ONTARIO

MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ONTARIO

DESIGN CAPACITY : 409.14 1000 m3

IJC DESIGNATION : DIRECT

PLANT BYPASS			SECONDARY BYPASS			
VOLUME   (1000m3)	DURATION   (Hrs)	# of TIMES   	VOLUME     (1000m3)  	DURATION (Hrs)	   # of TIMES   	
	•	-	I . I	•	-	
.	. 1	•	1 - 1			
- 1	- 1		7.800			
. 1	- î	•	30.900	•	-	
•	· î	· i	1 . 1	-		
- 1	- 1	- 1	14.200	•		
•	ŧ [	• 1	11.400			
•	- 1	•	9.000			
. [	• 1	•	35.200			
A=7.	. 1		1 - 1			
- 1	- 1	.	42.400		i -	
- 1	- 1	-	1.900		! -	
			152.800	···	 	
0	0 [	0	8	0	0	
0.000%			0.104%		I I I	
	(1000m3)	(1000m3)   (Hrs)	(1000m3) (Hrs)	(1000m3) (Hrs)   (1000m3)   (1000m3)	(1000m3) (Hrs)   (1000m3) (Hrs)	

MUNICIPALITY: METRO TORONTO

REGION : CENTRAL
DISTRICT : METRO TORONTO EAST PLANT : MAIN WPCP (TORONTO)

WORKS NUMBER : 120000391 OPERATING AUTHORITY : MUNICIPAL

TREATMENT : CONVENTIONAL ACTIVATED SLUDGE WATERCOURSE : LAKE ONTARIO PHOSPHORUS REMOVAL - CONTINUOUS MAJOR BASIN : GREAT LAKES MINOR BASIN : LAKE ONTARIO

IJC DESIGNATION : DIRECT DESIGN CAPACITY : 818.28 1000 m3

	PLANT BYPASS					SECONDARY	BYPASS
1987     1987   	VOLUME (1000m3)	DURATION     (Hrs)	# of TIMES	    	VOLUME   (1000m3)	DURATION (Hrs)	   # of TIMES   
JAN			÷	 	.		-
FEB	•		-	П	• 1	. 7	-
MAR		- 1	190	11	57.300	•	
APR	•	- 1		11	10.900	-	7-
MAY	-	- 1	14	11	•		•
JUN	•		7 <del>-</del>	11	9.400	•	
JUL	•			11	. 1		-
AUG				11	11.500		
SEP	t <b>=</b> 1	- ]		11	56.100		•
OCT		- 1	=	11	30.000	÷	
NOV			•	П	13.400		
DEC	•	i - i	7 <del>.5</del>	11	4.700		-
				11.			
TOTAL		1		11	193.300		ĺ
OBSERVATIONS	0	0	0	11	8	0	0
ı				11	ĺ		Ī
PERCENTAGE	0.000%	1		11	0.069%	11	
OF PLANT		1		11	1		
EFFLUENT		1		11	Î		
		1		11	i		

MUNICIPALITY: MILTON REGION : CENTRAL
PLANT : MILTON WPCP DISTRICT : HALTON PEEL
WORKS NUMBER : 120001014 OPERATING AUTHORITY : MUNICIPAL

TREATMENT : CONVENTIONAL ACTIVATED SLUDGE WATERCOURSE : OAKVILLE CREEK

PHOSPHORUS REMOVAL-CONTINUOUS MAJOR BASIN : GREAT LAKES
EFFLUENT POLISHING MINOR BASIN : LAKE ONTARIO

DESIGN CAPACITY : 12.91 1000 m3 IJC DESIGNATION : INDIRECT

JAN   FEB   MAR   APR   MAY	VOLUME   1000m3)	DURATION   (Hrs)   -   -   -	# of TIMES   	VOLUME	DURATION (Hrs)	# of TIMES   
FEB   MAR   APR   MAY	·   ·   ·   ·   ·	-   -   -   -	•		/= /-	[   -   -
MAR   APR   MAY	·	-   -   -		•	·*	
APR   MAY	.	. !	2=			
MAY	-	- 1		\$ 5	•	-
	-		•	1 - 1	•	
1		- 1	-	1 - 1	-	•
JUN	. 1	- 1	\ <u>-</u>	1 • 1	*	1 -
JUL	. 1	- 1	•	1 - 1	•	
AUG	. 1	- 1	•	1 - 1		
SEP	- 1	-	• [	1 - 1		1
OCT		- 1	- 1	1 - 1	•	-
NOV	. 1	- 1	- 1	0.265	-	-
DEC	. 1	•	•	0.810	-	-
TOTAL	! 			1.075	-	
BSERVATIONS	0	0	0	2	0	0
PERCENTAGE	0.000%			0.029%		1
OF PLANT  EFFLUENT	1		l I			

MUNICIPALITY: MISSISSAUGA

: LAKEVIEW WPCP SOUTH-PEEL SYSTEM

REGION DISTRICT

: CENTRAL : HALTON PEEL

PLANT

WORKS NUMBER : 110001284

OPERATING AUTHORITY : MINISTRY

TREATMENT : CONVENTIONAL ACTIVATED SLUDGE

WATERCOURSE : LAKE ONTARIO

PHOSPHORUS REMOVAL - CONTINUOUS

MAJOR BASIN MINOR BASIN

: GREAT LAKES : LAKE ONTARIO

DESIGN CAPACITY :

284.12 1000 m3

POPULATION SERVED :

370000

IJC DESIGNATION : DIRECT

	PL/	ANT BYPASS	6	11.		SECONDARY	BYPASS
1987	VOLUME   (1000m3)	DURATION   (Hrs)	# of TIMES		VOLUME   (1000m3)	DURATION   (Hrs)	# of TIMES
JAN	- 1	- 1	-	 	-	-	l e
FEB	- 1	- 1	-	П	• 1	- 1	•
MAR	- 1	- 1	*	П	9.182	7.0	1
APR	• ]		*	H	.	- 1	
MAY		•	-	11	- 1	.	*
JUN	- 1	<b>:•</b> 0	-	11	13.950	5.5	1
JUL	64.660	14.0	4	11	36.600	3.0	1
AUG	- 1	<u>-</u> 0	=	П	. 1	÷,	•
SEP	• [	- 1	Ĭ.	11	-		•
OCT	. 1	- 1	-	П	- 1	. 1	-
NOV	. 1	( <del>-</del> ))	-	11	6.101	5.0	1
DEC		-	-	Н	- 1	· [	~
TOTAL	64.660	14.0	4	11. 	65.833	20.5	4
DBSERVATIONS	1	1	1	11	4	4	4
PERCENTAGE   OF PLANT	i i i i i i i i i i i i i i i i i i i				0.070%	l I	
EFFLUENT	i	ì		ii	i	ĺ	

MUNICIPALITY : NEWCASTLE

REGION : CENTRAL DISTRICT : YORK DURHAM PLANT : PORT DARLINGTON WPCP WORKS NUMBER: 120003076 OPERATING AUTHORITY : MUNICIPAL

TREATMENT : CONVENTIONAL ACTIVATED SLUDGE WATERCOURSE : LAKE ONTARIO

PHOSPHORUS REMOVAL - CONTINUOUS MAJOR BASIN : GREAT LAKES MINOR BASIN : LAKE ONTARIO

4.54 1000 m3 IJC DESIGNATION : DIRECT DESIGN CAPACITY :

	PL.	ANT BYPASS		ļ	SECONDARY	BYPASS
1987	VOLUME    (1000m3)	DURATION   (Hrs)	# of TIMES   	VOLUME     (1000m3)  	DURATION (Hrs)	   # of TIMES   
JAN	   -	. !	- 1	   -	•	   •
FEB	-	- 1	- 1	1 - 1		1 -
MAR	•	. 1	7/ <b>=</b>	8.100	•	
APR	•	- 1	7 <u>2</u>	4.500	17 <u>4</u> 1	1 -
MAY	1 - 1	- 1	/ <del>-</del>	1 - 1	15	
JUN	•	- 1	•	1 - 1	•	-
JUL	•	÷.		1 - 1	1.5	
AUG		•	•	1 - 1	9.50	1 -
SEP	.	•	- 1	7.200	0.€	i -
OCT	1 - 1	- 1	- 1	1 - 1	-	1 .
NOV	•	- 1		21.600	•	•
DEC	! • !	-	•	12.900	÷	
TOTAL	<u> </u>			54.300		!
BSERVATIONS	0	0	0	5 1	0	[ 0
PERCENTAGE	0.000%	i				
OF PLANT	l 1	ĺ	j	l i		I
EFFLUENT	l i	ĺ	İ	i i		1

MUNICIPALITY: PETERBOROUGH

PLANT : PETERBOROUGH WPCP

REGION : CENTRAL
DISTRICT : PETERBOROUGH

WORKS NUMBER : 120000676

OPERATING AUTHORITY : MUNICIPAL

TREATMENT : CONVENTIONAL ACTIVATED SLUDGE

WATERCOURSE : OTONABEE RIVER

PHOSPHORUS REMOVAL-CONTINUOUS

MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ONTARIO

DESIGN CAPACITY :

68.19 1000 m3

IJC DESIGNATION : INDIRECT

7	PL	ANT BYPASS		!	SECONDARY	BYPASS
1987	VOLUME     (1000m3)   	DURATION   (Hrs)	# of TIMES	VOLUME     (1000m3)  	DURATION (Hrs)	   # of TIMES   
JAN	   •	- 1		l 1 I - 1	7 <u>4</u>	
FEB	1 - 1	•		1 - 1	•	
MAR	1 - 1		ž. (	1 . 1	5 <b>=</b> 3	•
APR	1 . 1	- 1	· I	94.690	? <b></b>	-
MAY	- 1	- 1	- 1	1 . 1	1.47	1 -
JUN	1 - 1	- 1	-	1 - 1	1 <del>2</del> 9	
JUL	1 - 1	· 1	•	1 - 1		
AUG	1 - 1	- 1	=	1 - 1	3 <del>4</del> 0	
SEP	1 . 1	- 1		1 - 1	( <del>=</del> )	i -
OCT	1	- 1	- 1	1 - 1	1-1	
NOV	1 - 1	- 1	-	1 - 1		
DEC	! . !	-	ž (	i • i	•	
TOTAL				94.690		
BSERVATIONS	0	0	0	1	0	0
PERCENTAGE	0.000%			0.511%		l I
OF PLANT	1 1	1		l i		Î
EFFLUENT	1 1	1	İ	i i		Ì

MUNICIPALITY : WHITBY REGION : CENTRAL

REGION : CENTRAL
DISTRICT : YORK DURHAM PLANT : CORBETT CREEK WPCP WORKS NUMBER : 120000738 OPERATING AUTHORITY : MUNICIPAL TREATMENT : CONVENTIONAL ACTIVATED SLUDGE WATERCOURSE : LAKE ONTARIO

PHOSPHORUS REMOVAL-CONTINUOUS MAJOR BASIN : GREAT LAKES : LAKE ONTARIO

MINOR BASIN

DESIGN CAPACITY : 36.36 1000 m3 IJC DESIGNATION : DIRECT

	PL	ANT BYPASS	ļ	ļ	SECONDARY	BYPASS
1987	VOLUME     (1000m3)   	DURATION   (Hrs)	# of TIMES   	VOLUME     (1000m3)  	DURATION (Hrs)	   # of TIMES   
JAN		. !	- 1	l     •		l I •
FEB		- 1	- 1	· 1	))₩:	-
MAR	•	- 1	- 1	4.300	2 <b>=</b> :	l -
APR	-	- 1	- 1	6.816	V <del>.</del>	-
MAY	•	- 1	- 1	1 . 1	6 <u>4</u>	
JUN	•	.	-	1 . 1	•	-
JUL	•	. 1	3 <del>.5</del> 7	1 . 1		
AUG		- 1	-	1 . 1		1 -
SEP		. 1	*	4.546		
ОСТ	•	- 1	~	1 • 1	*	
NOV	•	- 1	- 1	1 • 1	(*	
DEC	•	-	• [	•	•	! -
TOTAL				15.662		
DBSERVATIONS	0	0	0 [	3	0	0
PERCENTAGE	0.000%	i	)   1 	0.224%		l 
OF PLANT	l 1	i	ĺ	l i		1
EFFLUENT		ĺ	i	ı i		1

# SOUTHEAST REGION

MUNICIPALITY: BATH REGION: SOUTHEAST PLANT: BATH WPCP DISTRICT: KINGSTON WORKS NUMBER: 120000177: MUNICIPAL

TREATMENT : EXTENDED AERATION WATERCOURSE : LAKE ONTARIO

MAJOR BASIN : GREAT LAKES

MINOR BASIN : LAKE ONTARIO

DESIGN CAPACITY : 1.16 1000 m3 IJC DESIGNATION : DIRECT

	PLA	ANT BYPASS		SECONDARY BYPASS			
1987	VOLUME     (1000m3)   	DURATION (Hrs)	# of TIMES	VOLUME     (1000m3)  	DURATION (Hrs)	   # of TIMES   	
JAN		-		1 - I	Œ	l   -	
FEB	. 1	-	•	1 - 1			
MAR	1 - 1	- 1	) »·		•	1 -	
APR	-	-	- 1	11 - 1		•	
MAY	0.409	•	- 1	1 - 1	•	1 -	
JUN				1 - 1	•		
JUL	. 1	<b>.</b>		11 - 1	•		
AUG		-	-				
SEP	1 - 1	-	- 1	1 - 1	•		
OCT	l • 1	·•0	l - I	1 - 1		1 .	
NOV	1 - 1	-		11 - 1	-	1 -	
DEC	! - !	•			٠	1 -	
TOTAL	0.409						
SERVATIONS	1	0	0	0	0	. 0	
PERCENTAGE	   0.111%		l 	    0.000%	 	1	
OF PLANT			1	1		Ĭ	
EFFLUENT	70 MAX		ĺ	li i		Î	

MUNICIPALITY: BELLEVILLE REGION : SOUTHEAST PLANT : BELLEVILLE WPCP (163500 M3/D.PRIMARY) DISTRICT : KINGSTON

WORKS NUMBER : 110000016 OPERATING AUTHORITY : MINISTRY
TREATMENT : CONVENTIONAL ACTIVATED SLUDGE WATERCOURSE : LAKE ONTARIO

PHOSPHORUS REMOVAL-CONTINUOUS MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ONTARIO

DESIGN CAPACITY : 54.55 1000 m3 IJC DESIGNATION : DIRECT

	PL.	ANT BYPASS			SECONDARY	BYPASS
1987	VOLUME    (1000m3)   	DURATION   (Hrs)	# of TIMES   	VOLUME     (1000m3)  	DURATION   (Hrs)	# of TIMES
JAN		.	•	   64.700	  120.0	٠
FEB	- 1	. 1	- 1	53.800	82.0	11
MAR	l • i	- 1	- 1	339.900	336.0	31
APR	·	- 1	- 1	310.500	204.0	30
MAY	•	. 1	• 1	1 - 1		V-
JUN	i • i	- 1		i · i	. 1	•
JUL	. 1	- 1	- 1	9.200	12.0	3
AUG	i - i	- 1	· 1	1 - 1	.	1)•
SEP	i - i	- j	. 1	1 - 1	- 1	198
OCT	i - i	· i	. 1	1 - 1	i	
NOV	i - i	- i	. 1	107.200	73.0	30
DEC	- i		. [	180.500	172.0	31
TOTAL	 			1065.800	999.0	136
OBSERVATIONS	0	0	0 [	7	7	6
PERCENTAGE	0.000%	i	i	9.053%	ļ	
OF PLANT	l l	ĺ	1	1 1	Ī	
EFFLUENT	ı i	i		1 1	i	

REGION : SOUTHEAST DISTRICT : KINGSTON MUNICIPALITY: BROCKVILLE PLANT : BROCKVILLE WPCP WORKS NUMBER : 120000122 OPERATING AUTHORITY : MUNICIPAL

TREATMENT : PRIMARY WATERCOURSE : ST.LAWRENCE RIVER

> MAJOR BASIN PHOSPHORUS REMOVAL - CONTINUOUS

: GREAT LAKES
: ST. LAWRENCE RIVER MINOR BASIN

DESIGN CAPACITY : 25.57 1000 m3 IJC DESIGNATION : DIRECT

	PLA	NT BYPASS		ļ	SECONDARY	BYPASS
1987	VOLUME     VOLUME    (1000m3)   	DURATION   (Hrs)	# of TIMES	VOLUME     (1000m3)  	DURATION (Hrs)	   # of TIMES   
JAN	   •					T.
FEB	i - i	- 1	- 1	i - i		· -
MAR	9.090	- 1		i - i		i -
APR	1 - 1			1 - 1		•
MAY	1 - 1	- 1	-	1 - i	-	<u>.</u>
JUN	1 - 1	- 1	- 1	i - i	*	i ·
JUL	1 - 1	- 1	<u>=</u>	i • i	•	•
AUG	1 - 1	• 1	) <del>)</del>	1 - 1		
SEP	1 - 1	• 1	*	1 - 1		i ·
OCT	1 . [	•		1 - 1	•	
NOV	13.636	: <del>**</del>		1 - 1	•0	i -
DEC	9.090	- ]	-	i - i	**	<u>.</u>
TOTAL	31.816					<u> </u>
BSERVATIONS	3	0	0	0	0	0
PERCENTAGE OF PLANT EFFLUENT	i i	   		    0.000%   		I     

MUNICIPALITY: CARLETON PLACE REGION : SOUTHEAST
PLANT : CARLETON PLACE WPCP DISTRICT : OTTAWA

WORKS NUMBER: 110000971 OPERATING AUTHORITY: MINISTRY

TREATMENT : HIGH RATE WATERCOURSE : MISSISSIPPI RIVER

PHOSPHORUS REMOVAL-CONTINUOUS MAJOR BASIN : GREAT LAKES
MINOR BASIN : OTTAWA RIVER

DESIGN CAPACITY : 5.45 1000 m3 IJC DESIGNATION : NON IJC

	PLANT BYPASS			SECONDARY BYPASS				
1987	VOLUME     (1000m3)   	DURATION   (Hrs)	# of TIMES   	VOLUME     (1000m3)  	DURATION (Hrs)	   # of TIMES   		
JAN	   •	442.7	- 1	   •	ž.	   -		
FEB	1 • 1	433.8	- 1	1 - 1	*1			
MAR	1 - 1	726.0	- 1	1 . 1	•	٠ .		
APR	1 - 1	720.0	- 1	1 - 1	-			
MAY	1 - 1	744.0	- 1	1 . 1	+			
JUN	•	720.0	- 1	1 - 1				
JUL	1 - 1	744.0	- 1		*	-		
AUG	1 - 1	744.0	- 1	1 - 1		-		
SEP	1 - 1	414.0	- 1	1 - 1	2			
OCT	1 - 1	744.0	- 1	1 • 1	•			
NOV	1 • 1	720.0	- 1	1 . 1	· ·			
DEC	•	744.0	. !	! !	8			
TOTAL	 	7896.5		 				
BSERVATIONS	0	12	0 [	1 0 1	0	0		
PERCENTAGE OF PLANT EFFLUENT	i i	     		0.000%     0.000%		 		

REGION MUNICIPALITY : COBDEN REGION : SOUTHEAD ISTRICT : OTTAWA

PLANT : COBDEN WPCP WORKS NUMBER : 120000596 OPERATING AUTHORITY : MUNICIPAL

TREATMENT : EXTENDED AERATION WATERCOURSE : MUSKRAT RIVER PHOSPHORUS REMOVAL - CONTINUOUS MAJOR BASIN : GREAT LAKES

: SOUTHEAST

MINOR BASIN : OTTAWA RIVER

IJC DESIGNATION : NON IJC DESIGN CAPACITY : 0.68 1000 m3

	PLA	NT BYPASS		SECONDARY BYPASS			
1987	VOLUME     (1000m3)   	DURATION   (Hrs)	# of TIMES	    VOLUME	DURATION (Hrs)	   # of TIMES   	
JAN	1 . 1 1 - 1	.	-	    -	-	l I -	
FEB	1 - 1	- 1	-	II - I	-	-	
MAR	1.850	-	•	•	•	1 -	
APR	1.790	•		•			
MAY	0.100	- 1		ii - i			
JUN	0.120			-		N=0	
JUL	1 - 1	-		ii - i		-	
AUG	1 . 1	:•:	-	ii - i		Î -	
SEP	1 - 1	-	- 1	ii - i		ì -	
ОСТ	0.090			II • 1	•	į ·	
NOV	1 - 1	-		11 - 1			
DEC	1 . 1		-	-	•	-	
TOTAL	3.950				,		
BSERVATIONS	5	0	0	0	0	0	
PERCENTAGE			l I	    0.000%		1	
OF PLANT	1 1		l	11		1	
EFFLUENT	1 1			[]		Ĩ	

MUNICIPALITY: ERNESTOWN REGION: SOUTHEAST
PLANT: ODESSA WPCP DISTRICT: KINGSTON
WORKS NUMBER: 110002041 OPERATING AUTHORITY: MINISTRY

TREATMENT : EXTENDED AERATION WATERCOURSE : MILLHAVEN CREEK

PHOSPHORUS REMOVAL-CONTINUOUS MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ONTARIO

DESIGN CAPACITY : 0.90 1000 m3 IJC DESIGNATION : INDIRECT

	PLA	ANT BYPASS		.11.		SECONDARY	BYPASS
1987	VOLUME   (1000m3)	DURATION   (Hrs)	# of TIMES	11 11 11 11.	VOLUME   (1000m3)	DURATION (Hrs)	   # of TIMES   
JAN	0.375	- 1	_	11	-	•	-
FEB	- 1	- 1	ė	П	.	*	
MAR	.	· 1	=	11	• 1	ě	
APR		- 1	-	11			
MAY		- 1		П			
JUN	-	- 1	-	11	- 1		-
JUL	- 1	- 1	=	11	- 1	*	
AUG	- 1	- 1	ŧ	П	.	*	•
SEP	• ]	- 1	3	П	•		
OCT	• ]	- 1	-	11			
NOV	8.5	- 1	-	П	- 1	•	
DEC	- 1	- [	•	11	- [	-	- 
TOTAL	0.375			11			¦
OBSERVATIONS	1	0	0	ij	0	0	0
PERCENTAGE OF PLANT EFFLUENT		   		11	0.000%     		     

REGION : SOUTHEAST DISTRICT : KINGSTON MUNICIPALITY : FRANKFORD PLANT : FRANKFORD WPCP WORKS NUMBER : 110000267 OPERATING AUTHORITY : MINISTRY WATERCOURSE : TRENT RIVER TREATMENT : CONTACT STABILIZATION

MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ONTARIO
IJC DESIGNATION : INDIRECT PHOSPHORUS REMOVAL - CONTINUOUS

1.36 1000 m3 DESIGN CAPACITY :

	PL/	NT BYPASS		ļ	SECONDARY	BYPASS
1987	VOLUME   (1000m3)	DURATION   (Hrs)	# of TIMES   	VOLUME     (1000m3)  	DURATION (Hrs)	   # of TIMES   
JAN	. I	.	- 1	1 1 1 - 1	-	   •
FEB	- 1	- 1	-8	1 - 1		١ .
MAR	1	- 1	-	1 - 1	•	٠ -
APR	20.910	294.0	16	[ - ]		
MAY		• 1	•	1	•	
JUN	- 1	- 1	;•·:	1 .		
JUL	· • [	. 1		1 - 1		
AUG	-	- 1	10€).	1	•	
SEP	•	- 1	:•:	1 - 1	*	
OCT	•	. 1	•		•	
NOV	1 • 1	. 1	•	1 - 1		
DEC	•	. !	ē <b>=</b> £	1 -		l •
TOTAL	20.910	294.0	16			1
OBSERVATIONS	1 1	1	1	0	0	0
PERCENTAGE	   5.101%			    0.000%		1
OF PLANT	1 1	1		П		1
EFFLUENT	1 1	j		If		1

REGION : SOUTHEAST DISTRICT : CORNWALL MUNICIPALITY : HAWKESBURY PLANT : HAWKESBURY WPCP WORKS NUMBER : 110002283 OPERATING AUTHORITY : MINISTRY

TREATMENT : MODIFIED ACTIVATED SLUDGE PHOSPHORUS REMOVAL - CONTINUOUS

WATERCOURSE : OTTAWA RIVER
MAJOR BASIN : GREAT LAKES
MINOR BASIN : OTTAWA RIVER

IJC DESIGNATION : NON IJC DESIGN CAPACITY : 12.27 1000 m3

	PLA	ANT BYPASS		!	SECONDARY	BYPASS
1987	VOLUME   (1000m3)   	DURATION   (Hrs)	# of TIMES	VOLUME     (1000m3)  	DURATION   (Hrs)	# of TIMES
JAN	. 1	.	-	   -	-	_
FEB	- 1	- 1	- 1	1 . 1	.	÷
MAR	. 1	- 1	- 1	1 - 1	.	
APR	0.528	0.1	1	1 - 1		*
MAY	6.599	- 1	7	1.500	.	
JUN	10.823	2.4	6	1 - 1	.	
JUL	10.823	2.5	6	1 - 1	- 1	-
AUG	. 1	- 1	- 1	1.056	0.2	3
SEP	26.657	6.0	6	1 - 1	- j	÷
OCT	0.264	0.1	1	1 - 1		
NOV	38.011	8.6	6	1 - 1		-
DEC	2.111	0.5	2	! - i	- 1	*
TOTAL	95.816	20.2	35	2.556	0.2	3
BSERVATIONS	8	7	8	2	1	1
PERCENTAGE   OF PLANT   EFFLUENT		 		0.068%     0.068%   		

MUNICIPALITY: KINGSTON : SOUTHEAST PLANT: KINGSTON WPCP (CITY) DISTRICT: KINGSTON

WORKS NUMBER : 120001050 OPERATING AUTHORITY : MUNICIPAL
TREATMENT : PRIMARY WATERCOURSE : ST.LAWRENCE RIVER

PHOSPHORUS REMOVAL-CONTINUOUS MAJOR BASIN : GREAT LAKES

MINOR BASIN : ST. LAWRENCE RIVER

DESIGN CAPACITY : 61.37 1000 m3 IJC DESIGNATION : DIRECT

	PL/	ANT BYPASS		!	SECONDARY	BYPASS
1987   	VOLUME   (1000m3)	DURATION (Hrs)	   # of TIMES     	VOLUME     (1000m3)	DURATION (Hrs)	   # of TIMES   
JAN	. 1				•	
FEB	- 1			1 · i		i -
MAR	- 1	•		i - i	-	
APR	. 1	o <del>s</del> c		1 - 1		i -
MAY	• 1		1 - 1	1 • 1	-	i -
JUN	- 1	:#X	l - i	ı - i	<u></u>	
JUL	. 1		1 - 1	1 - 1		i •
AUG	• 1	•	1 - 1	1 - 1		
SEP	22.727	•	1 . 1	1 - 1		
OCT		•	1 - 1	11 - 1		1 -
NOV	136.363			11 - Î		i •
DEC	. !	•	! • !	•	-	-
TOTAL	159.090					<u> </u>
BSERVATIONS	2	0	] 0	0	0	0
PERCENTAGE   OF PLANT   EFFLUENT				    0.000%   		

MUNICIPALITY: KINGSTON

: KINGSTON WPCP (TOWNSHIP)

WORKS NUMBER : 110000365

PLANT

TREATMENT : CONVENTIONAL ACTIVATED SLUDGE

PHOSPHORUS REMOVAL - CONTINUOUS

DISTRICT : KINGSTON OPERATING AUTHORITY : MINISTRY

: SOUTHEAST

WATERCOURSE

: LAKE ONTARIO

MAJOR BASIN

: GREAT LAKES

MINOR BASIN : LAKE ONTARIO

DESIGN CAPACITY :

25.00 1000 m3

POPULATION SERVED :

28000

IJC DESIGNATION : DIRECT

	PL 1	ANT BYPASS		Щ.		SECONDARY	BYPASS
1987	VOLUME     (1000m3)   	DURATION   (Hrs)	# of TIMES	    	VOLUME (1000m3)	DURATION	# of TIMES
JAN	l	-		11			¥ <b>.</b> 8
FEB	i - i	( <del>)</del>		ii		- i	(#3)
MAR	i - i	- j	l <del>≡</del> 2:	ii	- i	18.0	(₩)
APR	ı • i	·•	5 <b>9</b> -2	ii	. 1	-	325
MAY	l • i	·- i	( <b>=</b> 3	ii	- i	. i	
JUN	1 - 1	256	<u>₩</u> X	П	.		
JUL	1 • 1	•	<b>.</b>	П	- i	- i	
AUG	i • i	0.50	i <b>=</b> %	ii	- 1	- 1	**
SEP		5. <del>4</del> 3	:=0	ii	·i	- 1	*
ОСТ	1 - 1		<b>=</b> 0	П	- i	• į	( <del>*</del>
NOV	1 - 1	- 1		İİ	· i	•	(**)
DEC	! • !	-		H	- 1	• 1	) <del>,</del> =
TOTAL	 			.H. H		18.0	*
OBSERVATIONS	0	0	0	ii	0 j	1 1	0
PERCENTAGE OF PLANT EFFLUENT	i i	   			0.000%	   	

REGION : SOUTHEAST DISTRICT : CORNWALL MUNICIPALITY : L'ORIGNAL PLANT : L'ORIGNAL WPCP WORKS NUMBER : 110001701 OPERATING AUTHORITY : MINISTRY

WATERCOURSE : OTTAWA RIVER
MAJOR BASIN : GREAT LAKES
MINOR BASIN : OTTAWA RIVER
IJC DESIGNATION : NON IJC TREATMENT : EXTENDED AERATION

DESIGN CAPACITY : 0.95 1000 m3
POPULATION SERVED : 1523

	PL/	ANT BYPASS	!	ļ	SECONDARY	BYPASS
1987   	VOLUME   (1000m3)	DURATION   (Hrs)	# of TIMES   	VOLUME     (1000m3)  	DURATION (Hrs)	   # of TIMES   
I NAL	- 1	.	-	   -	-	1 1 -
FEB	. 1	- 1	. 1	1 - 1		
MAR	- 1	- 1	- 1	1 . 1	2	
APR	. 1	. 1	• 1	•	•	
MAY	. 1	• 1	- 1	1 - 1	(4)	1 -
JUN	- 1	10-	- 1	1 • 1	•	
JUL	. 1	- 1	- 1	1 - 1	150	-
AUG	1.804	41.0	8	-	<b>(€</b> )	1 -
SEP	. 1	- 1	- 1	1 - 1	•0	1 -
OCT	. 1	· [	- 1	1 - 1	•	-
NOV	- 1	- 1	- 1	1 - 1	<b>.</b>	
DEC	- [	- !	•	! •	•	
TOTAL	1.804	41.0	I	 		!
OBSERVATIONS	1	1	1	0	0	j 0
PERCENTAGE	0.692%		!	0.000%	7) 1-1-1	l I
OF PLANT	i	i	i	1		Î
EFFLUENT	ĺ	i	İ	i		Ì
	i	i	i	Î.		İ

REGION : SOUTHEAST DISTRICT : OTTAWA MUNICIPALITY: NEPEAN PLANT : WATTS CREEK WPCP

WORKS NUMBER : 120000701 OPERATING AUTHORITY : MUNICIPAL TREATMENT : CONVENTIONAL ACTIVATED SLUDGE WATERCOURSE : WATTS CREEK

MAJOR BASIN : GREAT LAKES
MINOR BASIN : OTTAWA RIVER
IJC DESIGNATION : NON IJC PHOSPHORUS REMOVAL - CONTINUOUS

DESIGN CAPACITY : 29.54 1000 m3

	PL.	ANT BYPASS		!!	SECONDARY	BYPASS
1987	VOLUME     (1000m3)   	DURATION   (Hrs)	# of TIMES	VOLUME	DURATION (Hrs)	   # of TIMES   
JAN		· [	-	    2.300		 
FEB	•	- 1	-	$\Pi - 1$	( <b>-</b> 0)	- 1
MAR	-	- 1	-	391.200	( <del>*</del> )	-
APR	1 - 1	- 1		274.500		j -
MAY	1 - 1	. 1		[] 0.500	•	
JUN	1 - 1	-	-	[] 0.200	. <del></del>	
JUL		- 1	-	40.200	:**	
AUG	1 - 1	- 1	-	11 - 1	-	i -
SEP	1 • 1	. 1		11 - 1	•	1 -
OCT	1 . 1	•	-	H : I		1 -
NOV	r · 1	( <del>=</del> )		16.500		1 -
DEC	•	-		77.800		-
TOTAL	¦			803.200		 
BSERVATIONS	0	0	0	8	0	[ 0
PERCENTAGE	0.000%			7.553%		i
OF PLANT	1 1			11 1		1
EFFLUENT	1 1			11 1		1

MUNICIPALITY: OSNABRUCK REGION : SOUTHEAST PLANT : INGLESIDE WPCP DISTRICT : CORNWALL

WORKS NUMBER : 120000140 OPERATING AUTHORITY : MUNICIPAL
TREATMENT : PRIMARY WATERCOURSE : ST. LAWRENCE RIVER

MAJOR BASIN : GREAT LAKES

MINOR BASIN : ST. LAWRENCE RIVER

DESIGN CAPACITY : 1.57 1000 m3 IJC DESIGNATION : DIRECT

	PL/	NT BYPASS		ļ	SECONDARY	BYPASS
1987	VOLUME     (1000m3)   	DURATION   (Hrs)	# of TIMES     	VOLUME     (1000m3)  	DURATION (Hrs)	# of TIMES
JAN	   •		-	.	-	
FEB	1 - 1	- 1	- 1	1 - 1		
MAR	1.818	- 1	- 1	1 - 1	•	
APR	1 - 1	- 1	- 1	l - I		•
MAY	1 - 1	- 1	- 1	-	•	
JUN	1 - 1	- 1	- i	i - i	-	
JUL	1.031	- 1	- 1	1 - 1	-	-
AUG	1 - 1	- 1	- 1	1 - 1	=	
SEP	1 - 1	- 1	- 1	1 : 1	•	
ОСТ	1 - 1	- 1	- 1	1 - 1		
NOV	3.637	- 1	- 1	1 • 1		
DEC	-	. !	- [	! • !	-	-
TOTAL	6.486			!! !		
BSERVATIONS	] 3	0	0	į • į	0	0
PERCENTAGE				0.000%		
OF PLANT	1 1		I	1		l
EFFLUENT	1 1	1	- 1	1 1	Ì	1

MUNICIPALITY : PICTON REGION : SOUTHEAST DISTRICT : KINGSTON PLANT : PICTON WPCP WORKS NUMBER: 120000667 OPERATING AUTHORITY : MUNICIPAL TREATMENT : CONTACT STABILIZATION WATERCOURSE : PICTON BAY

MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE ONTARIO PHOSPHORUS REMOVAL - CONTINUOUS

DESIGN CAPACITY : 4.54 1000 m3 IJC DESIGNATION : DIRECT

	PL	ANT BYPASS		<u> </u>	SECONDARY	BYPASS
1987	VOLUME     VOLUME    (1000m3)   	DURATION   (Hrs)	# of TIMES	VOLUME     (1000m3)  	DURATION (Hrs)	   # of TIMES   
JAN		•	-			[   -
FEB	l - I	- 1		1 . 1	•	
MAR		- 1	1=1	1 - 1		-
APR	1 - 1	- 1	- 1	4.546	-	•
MAY	1 • 1	- 1	- 1	1 . [	*	•
JUN		- 1	•	1 . 1		-
JUL	1 - 1	- 1	-	1 - 1	***	
AUG		- 1	- 1	1 - 1		-
SEP		- 1	- 1	1 . 1	-	
OCT	l - I	- 1	•	1 . 1		
NOV	1 • 1	. 1	•	3.309		
DEC		•	÷	1 . 1	0 <b>.</b> ■	) #1 6
TOTAL		l		7.855		
OBSERVATIONS	0	0	0 [	2	0	0
PERCENTAGE OF PLANT EFFLUENT	5	   		0.745%     0.745%   		 

MUNICIPALITY: PRESCOTT REGION: SOUTHEAST
PLANT: EDWARDSBURGH WPCP DISTRICT: KINGSTON
WORKS NUMBER: 110001122 OPERATING AUTHORITY: MINISTRY

WORKS NUMBER: 110001122 OPERATING AUTHORITY: MINISTRY
TREATMENT: PRIMARY WATERCOURSE: ST. LAWRE

PRIMARY WATERCOURSE : ST. LAWRENCE RIVER
PHOSPHORUS REMOVAL-CONTINUOUS MAJOR BASIN : GREAT LAKES

MINOR BASIN : ST. LAWRENCE RIVER

DESIGN CAPACITY : 5.68 1000 m3 IJC DESIGNATION : DIRECT

	PL	ANT BYPASS		!!	SECONDARY	BYPASS
1987   	VOLUME   (1000m3)	DURATION   (Hrs)	# of TIMES	    VOLUME	DURATION   (Hrs)	# of TIMES
JAN		-	-	 	-	
FEB		1.4	-	11 - 1	21.0	
MAR	. 1	75.0	•	11 - 1	88.0	-
APR		17.0	•	11 - 1		•
MAY		- 1	÷	11 - 1	: 1	•
JUN	. 1	- 1	÷	11 - 1	- 1	-
JUL		8.5		11 - 1	4.4	-
AUG	. 1	- 1		11 - 1	- 1	-
SEP	1 - 1	- 1		11 - 1	- 1	-
OCT		- 1	-	11 - 1	-8	-
NOV		47.0	ĕ	11 - 1	27.0	
DEC	•	4.2	•	11 - 1		*
TOTAL	 	153.1		11	140.4	
BSERVATIONS	0	6	0	[] 0	4	0
PERCENTAGE	0.000%	ľ		0.000%		
OF PLANT	l l	I		11		
EFFLUENT				11		

MUNICIPALITY : SIDNEY REGION : SOUTHEAST DISTRICT : KINGSTON PLANT : BATAWA WPCP WORKS NUMBER : 110000668 OPERATING AUTHORITY : MINISTRY TREATMENT : CONVENTIONAL ACTIVATED SLUDGE WATERCOURSE : TRENT RIVER

> PHOSPHORUS REMOVAL - CONTINUOUS MAJOR BASIN : GREAT LAKES MINOR BASIN

: LAKE ONTARIO 0.56 1000 m3 DESIGN CAPACITY : IJC DESIGNATION : INDIRECT

	PL I	ANT BYPASS		SECONDARY BYPASS			
1987	VOLUME     (1000m3)	DURATION   (Hrs)	# of TIMES	VOLUME     (1000m3)	DURATION (Hrs)	   # of TIMES   	
JAN	 	•	•	   10.860	•	l   •	
FEB	•	- 1	• 1	8.810		28	
MAR		- 1	-	13.090	**	31	
APR			- 1	10.580	(•€)		
MAY	l • i	• 1	- i	i - i	<b>:■</b> 0	-	
JUN	l • i	- 1	- 1	9.060	•	-	
JUL	i - i		· i	5.240	•	1 20	
AUG		- j	÷ j	1.130	<b>3</b>	10	
SEP	ı • İ	. i	- 1	0.380			
ост	· i		- 1	0.720	; <b>●</b> (	1 4	
NOV	· i	- i	- 1	2.680	€0	i -	
DEC		- [	. [	8.750	3-05		
TOTAL	 			71.300		93	
OBSERVATIONS	0	0	0	11	0	5	
PERCENTAGE	0.000%	1	l	16.499%		1	
OF PLANT	1 1	1	ĺ	1 1		1	
EFFLUENT	1 1	ĺ	ĺ	1 1		1	

MUNICIPALITY: TRENTON : SOUTHEAST PLANT: TRENTON WPCP PLANT: TRENTON WPCP PLANT: KINGSTON

WORKS NUMBER: 110000775 OPERATING AUTHORITY: MINISTRY

TREATMENT : CONVENTIONAL ACTIVATED SLUDGE WATERCOURSE : BAY OF QUINTE PHOSPHORUS REMOVAL-CONTINUOUS MAJOR BASIN : GREAT LAKES MINOR BASIN : LAKE ONTARIO

DESIGN CAPACITY : 15.91 1000 m3 IJC DESIGNATION : DIRECT

	PL.	ANT BYPASS		!!	SECONDARY	BYPASS
1987	VOLUME    (1000m3)   	DURATION   (Hrs)	# of TIMES	    VOLUME	DURATION (Hrs)	   # of TIMES   
JAN	   -	. 1		    -	. •	l 1 -
FEB	1 - 1	. 1	•	11 - 1	•	1 -
MAR	1 - 1	- 1	77 <b>.0</b> 1	II · I	•	1 -
APR	1 - 1	٠ ١	₩.	49.810		
MAY	-	- 1	•	II •	•	
JUN	1 - 1	- 1	150	0.500		1 -
JUL	•	*		11 - 1	•	1 -
AUG	1 - 1	- 1	-	11 - 1		1 -
SEP	1 • 1	-	-	11 -	•	1 -
OCT	1 • 1	- 1	-	11 -		1 -
NOV	•	•	•	11 - 1	•	1 -
DEC	•	•	•	II •		
TOTAL	<u> </u>			50.310		
DBSERVATIONS	0	0	0	2	0	0
PERCENTAGE OF PLANT EFFLUENT	i i			    1.227% 		

# NORTHEAST REGION

MUNICIPALITY : BLIND RIVER

REGION : NORTHEAST
DISTRICT : SAULT STE. MARIE PLANT : BLIND RIVER WPCP

WORKS NUMBER : 110002416

WATERCOURSE : LAKE HURON TREATMENT : EXTENDED AERATION

MAJOR BASIN : GREAT LAKES
MINOR BASIN : LAKE HURON

OPERATING AUTHORITY : MINISTRY

IJC DESIGNATION : DIRECT DESIGN CAPACITY : 3.50 1000 m3

	PLI	NT BYPASS		ļ	SECONDARY	BYPASS
1987	VOLUME   (1000m3)	DURATION   (Hrs)	# of TIMES	VOLUME     (1000m3)	DURATION	# of TIMES
JAN	. 1	- 1		 	-	•
FEB			( <b>-</b> )	1 . 1		-
MAR	. 1	- 1	-	1 - 1	- 1	:-
APR	- [	· [	•	11 - 1	- 1	- 1
MAY	0.545	- 1	2	11 - 1	4.0	2
JUN	- 1	- 1	•	11 • 1		•
JUL		- 1		(I · I		-
AUG	- 1	- 1	•	11 - 1	- 1	
SEP	.	- 1	-	11 - 1	- 1	-
OCT	-	- 1	-	11 - 1		y <b>-</b> s
NOV	-	- 1		H - I	-	-
DEC	-	-	<i>7</i> <b>₽</b>	-	-	-
TOTAL	0.545		2		4.0	2
BSERVATIONS	1 1	0	1	0	1	1
PERCENTAGE	0.075%			    0.000%		
OF PLANT	1 1			11	ĺ	
EFFLUENT	1 1		ĺ	11		ĺ

MUNICIPALITY: ESPANOLA ESPANOLA WPCP REGION : NORTHEAST PLANT : ESPANOLA WPCP DISTRICT : SUDBURY WORKS NUMBER: 110000212 OPERATING AUTHORITY: MINISTRY

TREATMENT : PRIMARY WATERCOURSE : SPANISH RIVE

OPERATING AUTHORITY: MINISTRY
WATERCOURSE: SPANISH RIVER
MAJOR BASIN: GREAT LAKES
MINOR BASIN: LAKE HURON
IJC DESIGNATION: INDIRECT

DESIGN CAPACITY : 3.00 1000 m3 IJC DESIGNATION : INDIRECT

	PL	ANT BYPASS		11.		SECONDARY	BYPASS
1987	VOLUME   (1000m3)	DURATION   (Hrs)	# of TIMES	       	VOLUME   (1000m3)	DURATION (Hrs)	   # of TIMES   
   NAL		.	-	 	- 1		[ 
FEB	- 1	- 1	-	11	- 1		i -
MAR	0.590	- 1	-	П	- 1	•	i •
APR		. 1	•	H		•	i •
MAY		. 1		П	- 1		
JUN	.	- 1		Ħ	-	-	i -
JUL	1.818	- 1	1	11	- 1	•	i -
AUG	-	- 1	-	H	- 1	*	i -
SEP		- 1	74	П		•	
ОСТ	.	- 1		11			
NOV	-	- 1		H	. 1		i -
DEC	. !	- !	) <b>-</b>	H	- [	-	-
TOTAL	2.408		1	Н.			ļ
	2.400	0 1		Н	, !	•	
OBSERVATIONS	۷	0	1	11	0	0	) 0 I
PERCENTAGE	0.213%	i		ii	0.000%		
OF PLANT		1		11	i		
EFFLUENT	1	1		11	Î		
	i	ì		П	i		

MUNICIPALITY : HORNEPAYNE

REGION : NORTHEAST
DISTRICT : SAULT STE. MARIE PLANT : HORNEPAYNE WPCP

WORKS NUMBER: 110001952 OPERATING AUTHORITY : MINISTRY

TREATMENT : EXTENDED AERATION WATERCOURSE : JACKFISH RIVER

MAJOR BASIN : ARCTIC WATERSHED
MINOR BASIN : JAMES BAY MAJOR BASIN

IJC DESIGNATION : NON IJC DESIGN CAPACITY : 1.36 1000 m3

	PLA	ANT BYPASS		!	SECONDARY	BYPASS
1987		DURATION   (Hrs)	   # of TIMES     	VOLUME     VOLUME     (1000m3)  	DURATION   (Hrs)	# of TIMES
JAN	   •	.	.	   •		*
FEB	1 - 1	- 1	• 1	1 . [	•	•
MAR	- 1	- 1	a. <del>-</del>	1 - 1	-	·
APR	1 - 1	- 1	•	1 - 1	- 1	:=:
MAY	1 • 1	- 1	- 1	1 - 1	- 1	3-1
JUN	1 • 1	- 1	- 1	1 - 1	- 1	•
JUL	1.700	12.0	- 1	1.300	12.0	•
AUG	1 - 1	•	.	1 - 1	- 1	•
SEP	0.413	14.0	1	1 - 1		
OCT	1 - 1		- 1	1 - 1	- 1	9∰
NOV	1 - 1	- 1	.	1 - 1	- 1	0.€0
DEC	! - !	- [	- !	ļ - į	- 1	.=
TOTAL	2.113	26.0	1	1.300	12.0	
OBSERVATIONS	2	2	1	1 1	1	0
PERCENTAGE OF PLANT EFFLUENT	i i	 	 	0.434%     0.434%   		

REGION : NORTHEAST DISTRICT : TIMMINS MUNICIPALITY: KAPUSKASING PLANT : KAPUSKASING WPCP WORKS NUMBER: 110003004 OPERATING AUTHORITY : MINISTRY

WATERCOURSE : KAPUSKASING RIVER
MAJOR BASIN : ARCTIC WATERSHED
MINOR BASIN : JAMES BAY
IJC DESIGNATION : NON IJC TREATMENT : EXTENDED AERATION

DESIGN CAPACITY : 9.09 1000 m3

	PLA	NT BYPASS	SECONDARY BYPASS			
1987	VOLUME   (1000m3)	DURATION   (Hrs)	# of TIMES   	VOLUME     (1000m3)  	DURATION (Hrs)	 
JAN		- 1	- I	   -		
FEB	- 1	- 1	- 1	1 - 1	•	-
MAR	122.120	36.0	2	1 - 1	-	-
APR	•	- 1	- 1	1 - 1	•	
MAY	- 1	- 1	- 1	1 . 1		-
JUN	.	- 1	- 1	1 - 1		
JUL	- 1	- 1	. 1	1 - 1	•	•
AUG	- 1	- 1	- 1	1 • 1		-
SEP	- 1	- 1	· 1	1 . 1		-
ОСТ		- 1	- 1	1 - 1	•	-
NOV	- 1	- 1	- 1	1 • 1		-
DEC	• [	-	. !	-	•	
TOTAL	122.120	36.0	2			
OBSERVATIONS	1	1	1	1 0 1	0	0
PERCENTAGE OF PLANT	5.975%			0.000%		l Î
EFFLUENT	1	1	1	i i		k D

MUNICIPALITY : KIRKLAND LAKE REGION : NORTHEAST
PLANT : KIRKLAND LAKE WPCP DISTRICT : TIMMINS
WORKS NUMBER : 120000015 OPERATING AUTHORITY : MINISTRY

TREATMENT : CONTACT STABILIZATION WATERCOURSE : MURDOCK CREEK

PHOSPHORUS REMOVAL-CONTINUOUS MAJOR BASIN : GREAT LAKES
MINOR BASIN : OTTAWA RIVER

DESIGN CAPACITY : 13.63 1000 m3 IJC DESIGNATION : NON IJC

	PLA	NT BYPASS		SECONDARY BYPASS			
1987     1987	VOLUME   (1000m3)	DURATION   (Hrs)	# of TIMES	VOLUME     (1000m3)  	DURATION (Hrs)	   # of TIMES   	
   NAL	- I	•	<u>.</u>	   -	-	   -	
FEB	• [	- 1	: 1	•	•	1 -	
MAR	8.800	31.8	6		•		
APR	- 1		. 1	1 - 1	-	1 -	
MAY	- 1	3 <b>9</b> 5	- 1	1 - 1	•	-	
JUN	2.180	7.7	2	1 - 1		1 -	
JUL	1.562	5.5	1	1 - 1	-	1 -	
AUG	• [	-		1 • 1			
SEP				•	. B.		
OCT	1.704	6.5	3	•	:•4	1 -	
NOV	l • l	- 1	•	1 -	-	1 -	
DEC	!	-	-	<u> </u>	-		
TOTAL	14.246	51.5	12	1		1	
BSERVATIONS	4	4	4	0	0	] 0	
PERCENTAGE	0.381%			0.000%		1	
OF PLANT	ľ					1	
EFFLUENT	ĺ					1	

MUNICIPALITY : SAULT STE MARIE

REGION : NORTHEAST
DISTRICT : SAULT STE. MARIE PLANT : WEST END WPCP IN OP 1986

WORKS NUMBER: 110002540 OPERATING AUTHORITY : MINISTRY

TREATMENT : CONVENTIONAL ACTIVATED SLUDGE WATERCOURSE : ST MARY'S RIVER

> PHOSPHORUS REMOVAL - CONTINUOUS MAJOR BASIN : GREAT LAKES : LAKE HURON MINOR BASIN

DESIGN CAPACITY : 18.18 1000 m3 IJC DESIGNATION : DIRECT

	PL/	ANT BYPASS	!	SECONDARY BYPASS			
1987	VOLUME   (1000m3)	DURATION   (Hrs)	# of TIMES   	VOLUME     VOLUME     (1000m3)	DURATION (Hrs)	   # of TIMES   	
JAN		.	.	   •		   •	
FEB	• 1	- 1	- 1	1 - 1		-	
MAR	• 1	- 1	- 1	1 - 1	-	-	
APR	- 1	- 1	. 1	1 - 1	•	2	
MAY	6.600	16.0	1	1 • 1	•		
JUN	- 1	• 1	- [	-			
JUL	. [	- 1	- 1	1 - 1	(**)		
AUG	- 1	- 1	- 1	l - 1	(₩.)	•	
SEP	. 1	- 1	. 1	1 - 1	<b>:</b> #3	•	
OCT	- 1	- 1	- 1	1 • 1		ž.	
NOV	- 1	- 1	- 1	. i	•		
DEC	~	- [	• [	•			
TOTAL	6.600	16.0	1	 		<u> </u>	
OBSERVATIONS	1	1	1 [	0	0	0	
PERCENTAGE OF PLANT EFFLUENT		     		   0.000%   			

MUNICIPALITY: STURGEON FALLS REGION: NORTHEAST
PLANT: STURGEON FALLS WPCP
DISTRICT: NORTH BAY
WORKS NUMBER: 110001435
OPERATING AUTHORITY: MINISTRY

TREATMENT : CONVENTIONAL ACTIVATED SLUDGE WATERCOURSE : STURGEON RIVER

PHOSPHORUS REMOVAL-CONTINUOUS MAJOR BASIN : GREAT LAKES MINOR BASIN : LAKE HURON

DESIGN CAPACITY : 4.54 1000 m3 IJC DESIGNATION : INDIRECT

	PL	ANT BYPASS		ļ	SECONDARY	BYPASS
1987   	VOLUME   (1000m3)	DURATION   (Hrs)	# of TIMES	    VOLUME	DURATION (Hrs)	   # of TIMES   
JAN	-	<u>u</u>			•	   -
FEB	-	- 1	<b>:</b>	11 - 1		-
MAR	0.058	1.7	1	H - 1	; <b>.</b>	
APR	.	- 1	7 <b>-</b> 5	11 - 1	-	1 -
MAY	- 1	- 1		11 - 1	-	
JUN	0.050	2.8	2	H - 1	•	
JUL	0.014	1.0	2	11 • .1	•	
AUG	0.079	4.6	4	11 - 1	-	1 -
SEP	0.007	0.7	1	H - 1		
OCT	- 1	- 1	> <b>*</b>	11 - 1	) in the contract of the contr	1 -
NOV	0.001	0.2	1	11 - 1	( <b>a</b> )	1
DEC	-	-	÷	!! • !	•	! •
TOTAL	0.209	11.0	11			 
OBSERVATIONS	6	6	6	0	0	0
PERCENTAGE OF PLANT EFFLUENT	i i			    0.000% 		 

MUNICIPALITY: TIMMINS REGION: NORTHEAST PLANT: WHITNEY & TISDALE WPCP DISTRICT: TIMMINS

WORKS NUMBER : 110001391 OPERATING AUTHORITY : MUNICIPAL

TREATMENT : EXTENDED AERATION WATERCOURSE : PORCUPINE RIVER

MAJOR BASIN : ARCTIC WATERSHED
MINOR BASIN : JAMES BAY

DESIGN CAPACITY : 6.81 1000 m3 IJC DESIGNATION : NON IJC

	PLANT BYPASS					SECONDARY BYPASS	
1987	VOLUME     (1000m3)	DURATION   (Hrs)	# of TIMES		VOLUME   (1000m3)	DURATION (Hrs)	   # of TIMES   
JAN	. 1	(*)	l <u>u</u> s	11 11	.		-
FEB	- 1	- 1	<b>3</b> 1	11	. 1		-
MAR	. 1	- [	<b>3</b> 0	П	. 1		•:
APR	. 1	•	: <b>#</b> 3	П	. 1	-	<b>:</b> -11
MAY	- 1	· [	-	11	- 1	-	<b>3</b> 0
JUN	. 1	- 1	(a)	П	- 1		
JUL	1.034	- 1	~	П	. 1	•	
AUG	- 1	- 1	197	11			
SEP	. 1	- 1	<u></u>	П	-	•	<b>.</b> =1
OCT	• 1	- 1		П	- 1		
NOV	- 1	- [	-	11	- 1	12	
DEC	- [	- [	•)	!!	. !	٠	-
TOTAL	1.034			1 I. 	l		
BSERVATIONS	1	0 [	0	II	o j	0	0
PERCENTAGE   OF PLANT   EFFLUENT	i	1			0.000%     0.000%   		

# NORTHWEST REGION

MUNICIPALITY: GERALDTON

PLANT : GERALDTON WPCP

REGION : NORTHWEST
DISTRICT : THUNDER BAY

WORKS NUMBER : 110001649

OPERATING AUTHORITY : MINISTRY

TREATMENT : EXTENDED AERATION

WATERCOURSE : LAKE KENOGAMISIS

MAJOR BASIN : ARCTIC WATERSHED
MINOR BASIN : JAMES BAY

DESIGN CAPACITY : 1.81 1000 m3

IJC DESIGNATION : NON IJC

POPULATION SERVED :

2901

	PLANT BYPASS				SECONDARY BYPASS		
1987	VOLUME    (1000m3)	DURATION   (Hrs)	# of TIMES     	VOLUME     (1000m3)	DURATION (Hrs)	   # of TIMES   	
JAN	-	-		   -	-		
FEB	- 1	- 1	- 1	1 - 1	-		
MAR	0.159	- 1	1				
APR	- 1	- 1					
MAY		- 1	- 1				
JUN	. 1	- 1	- 1	Î · Î		-	
JUL	0.575	- 1	2	î - Î	-	-	
AUG	0.018	- 1	1				
SEP	- 1	- 1	. 1	1 - 1			
OCT	2.608	- 1	7			-	
NOV		- 1	- 1	i - i			
DEC		- [	- j	i - i	-		
TOTAL	3.360	· · · · · · · · · · · · · · · · · · ·	11				
BSERVATIONS	4	0 [	4	0	0	0	
PERCENTAGE OF PLANT EFFLUENT			   	0.000%     0.000%   		 	

MUNICIPALITY: RED LAKE REGION : NORTHWEST PLANT : RED LAKE WPCP DISTRICT : KENORA WORKS NUMBER: 110001131 OPERATING AUTHORITY : MINISTRY TREATMENT : EXTENDED AERATION WATERCOURSE : HOWEY BAY

MAJOR BASIN : NELSON RIVER BASIN MINOR BASIN : LAKE WINNEPEG EAST

MINUR BASIN : LAKE WINNEPEG E

DESIGN CAPACITY : 2.46 1000 m3 IJC DESIGNATION : NON IJC

	PLANT BYPASS				SECONDARY BYPASS		
1987   	VOLUME   (1000m3)	DURATION   (Hrs)	# of TIMES	    VOLUME	DURATION (Hrs)	# of TIMES   	
JAN	0.286		-	    -	<b>.</b> €.i		
FEB	- 1			H - 1	: <b></b> :	) ·	
MAR	- 1			11 - 1	-		
APR	- 1			H - 1	-	-	
MAY	- 1	~	%■	11 -		1 .	
JUN	• 1	•	•	11 -	•		
JUL	. • 1	-		11 -	•		
AUG		-	=	11 -	•		
SEP		-	-	11 -	•	1 -	
OCT	· •	-		11 -	•		
NOV	1	•		11 .	•		
DEC		•	• 	[] · ·			
TOTAL	0.286		l		 		
OBSERVATIONS		0	0	0    0	0	0	
PERCENTAGE OF PLANT			1   	0.000% 	   	1	
EFFLUENT			ļ		!	!	



TD/527/05/R46/1987 MOE

Date Due

TD/527/O5/R46/1987 MOE
Ontario Ministry of the En
Report on the 1987
discharges from amho

c.1 a aa